



Equipment Overall Identification	Operational Details
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Multilec Job Reference No:	48262
Client:	Blue Manta
Location of Inspection:	Blue Manta High Wycombe, 103 Milner Road, WA, 6057
Inspection Conditions:	Onshore No Operational Restrictions

Equipment Serial Number:	BM-C-10163
Equipment Description:	Zone 2 Container Workshop
Hazardous Dossier Provided:	Non Applicable
Inspection Performed By:	Thomas Smythe

Date of Inspection:	26-Sep-2023
Electrical Licence Number:	EW 194938
Hazardous Areas Certificate:	Certificate 4 in Hazardous Area UEE42611

Report Authorised by:	Dan Versace
Electrical Licence Number:	EW130078
Electrical Contracting Number:	EC007251
Hazardous Areas Certificate:	Cert No. 2013/W0718

Equipment Zone Operational Specifications

Location Group	Group II - Surface Mining	Zone Rating EPL	Zone 2/21 Gc/Dc
Gas Group	IIB Ethylene	Temperature Class	T6-85 degrees
Ingress Protection Level IP	IP 65	Installation Type	Mobile Equipment
Inspection Type	Annual Inspection	Inspection Standard	Detailed

Inspection of Hazardous Area Equipment Inspection Conducted under AS/NZ 60079 Part 17:

- V for Visual inspection: An inspection which identifies defects apparent to the eye without the use of access equipment or tools
- C for Close inspection. An inspection that included all those aspects covered by a visual inspection and identifies defects which will be apparent only using access equipment and or tools.
- D for Detailed. An inspection which encompasses those aspects covered by a close and in addition identifies those defects which will be apparent by opening the enclosure and or when it is necessary to use tools and equipment.

Equipment Identification	BM-C-10163	Multilec Job No	48262	Safe Zone Workshop	☒	Zone 2 Workshop	☒
Description of the Required Action							P F
Inspect the supply cable for physical condition and suitability prior to energisation, does the unit conform to the latest AS3000							☒
Is the cable terminated into main connection junction box with the enclosure closed and locked ready for energization							☒
Insulation test conducted to AS3000 1 minute at 1000 volts >200M Ω Ohms							☒
Type of electrical supply cable Flexible Class 5 ☒ Hard Drawn Class 2 ☐ Conductor Cross Sectional Area mm2							
Transformer Setting VAC 380 ☐ 400 ☐ 420 ☐ 440 ☐ 460 ☐ 480 ☐ 600 ☐ 690 ☐ No transformer fitted ☒							
Supply voltage cycle rate: 50 Hertz ☒ 60 Hertz ☐							
Check the condition and suitability of all equipotential earth bonding 0.1 Ω Highest Ohms reading taken							☒
Inspection of the cabling with in the unit, Is the cabling suitable for energisation?							☒
Inspection and check all cable glands are tight and provide the required IP Rating for a Safe Zone or Zone 2 rated unit							☒
Inspection and check operation of the lighting, does it operate as per the manufactures intended design							☒
Inspection and check the emergency lighting, does operate as per the relevant standard for discharge test for 90mins							N/A ☒
Record output voltage at the sockets: P-N 230 P-E 230 N-E 0 VAC							☒

Circuit Identification	Light Circuit	Manual test function if possible						N/A	☐	☒	☐					
Residual current device current ratings	6	☐	10	☒	16	☐	20	☐	25	☐	32	☐	40	☐	63	☐
RCD Trip Test & 30mA @ 0°:	18ms	@ 180°:	28ms	RCD Trip Test & 150mA @ 0°:		15ms	@ 180°:	10ms					☒	☐		

Circuit Identification	Power Circuit	Non Applicable				☐ Manual test function if possible	N/A	☐	☒	☐						
Residual current device current ratings	6	☐	10	☐	16	☒	20	☐	25	☐	32	☐	40	☐	63	☐
RCD Trip Test & 30mA @ 0°:	18ms	@ 180°:	28ms	RCD Trip Test & 150mA @ 0°:		14 ms	@ 180°:	8ms			☒	☐				

Circuit Identification	AirCon Circuit	Non Applicable				☐ Manual test function if possible	N/A	☐	☒	☐						
Residual current device current ratings	6	☐	10	☐	16	☒	20	☐	25	☐	32	☐	40	☐	63	☐
RCD Trip Test & 30mA @ 0°:	18 ms	@ 180°:	28 ms	RCD Trip Test & 150mA @ 0°:		13 ms	@ 180°:	9 ms	☒	☐						

Circuit Identification				Non Applicable ☐				Manual test function if possible				N/A ☒	☐	☐
Residual current device current ratings		6 ☐	10 ☐	16 ☐	20 ☐	25 ☐	32 ☐	40 ☐	63 ☐					
RCD Trip Test & 30mA @ 0°:		ms	@ 180°:	ms	RCD Trip Test & 150mA @ 0°:		ms	@ 180°:	ms					

Type of Air Conditioner: RAC ☐ Split Air Conditioner ☒	Ambient temperature for the time of test 25 °	N/A ☒	
Does the air conditioning unit run smoothly with no excessive noise or vibration that may affect operation			☒ ☐
Air intake temperature 26 °	Fan coil pin off temperature 23 °		
Is the temperature differential across the fan coil sufficient to provide an adequate level of efficiency. Temp Differential 3 °			☒ ☐

Operational Notes, Comments and Recommendations	

Technician: Thomas Smythe

Signature:

Date: 26-09-2023

T. G.

Document ME-EFT-WKSHOP	Reviewed By	Dan Versace		Revision D	Revision Date: 05.03.2019
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Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	230v Mains Appliance Inlet	Manufacturer	MARECHAL
Model Number	DXN1	Serial No	2518015 N/A ☐
Certification Number IECEx	LCI 09.0005x	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	de	Gas Group	IIC Hydrogen
Temperature Class	T5-100 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☐	☒	☐	☐	☐	☒
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☒	☒	☒	☒	☒
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☒
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☒

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☐	☒	☐	☐	☐	☒
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☒
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☒
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☒
	I/A 10mm	☐	☐	☐	☐	☐	☒
	I/b 30mm	☐	☐	☐	☐	☐	☒
	I/C 40mm	☐	☐	☐	☐	☐	☒
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☒

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☐	☐	☒	☐	☐	☒
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☐	☒	☐	☐	☐	☒
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☐	☒	☐	☐	☐	☒
	Conductors are all ferrelled and labelled					☐	☒	☐	☐	☐	☒
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☒	☐	☐	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☒
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☒
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☒
	Torque setting has been applied					☒	☐	☐	☐	☐	☒
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☒
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☒
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	230v Mains Supply Plug	Manufacturer	MARECHAL
Model Number	DXN1 2514015	Serial No	N/A ☒
Certification Number IECEx	LCI 09.0005x	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	de	Gas Group	IIC Hydrogen
Temperature Class	T5-100 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☐	☒	☐	☐	☐	☒
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☒	☒	☒	☒	☒
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☒
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☒

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☐	☒	☐	☐	☐	☒
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☒
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☒
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☒
	Ila 10mm	☐	☐	☐	☐	☐	☒
	Ilb 30mm	☐	☐	☐	☐	☐	☒
	IIC 40mm	☐	☐	☐	☐	☐	☒
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☒

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☐	☐	☒	☐	☐	☒
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☐	☒	☐	☐	☐	☒
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☐	☒	☐	☐	☐	☒
	Conductors are all ferrelled and labelled					☐	☒	☐	☐	☐	☒
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☒	☐	☐	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☒
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☒
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☒
	Torque setting has been applied					☒	☐	☐	☐	☐	☒
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☒
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☒
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	EXD Enclosure	Manufacturer	MCI ELECTROTECHNICS LTD
Model Number	EJB241	Serial No	2021 MCI 272075 03 N/A ☐
Certification Number IECEx	SIR 15.0088X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	db	Gas Group	IIB Ethylene
Temperature Class	T4-135 degrees	Ingress Protection Level IP	IP 65
Type of Glands Fitted	Barrier Red Ring	Material Composition	Cast Aluminum

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☒	☐	☐	☐	☐	☐
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☐	☒	☐	☐	☐	☒
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☐	☒	☐	☐	☐	☒
	Exclusion distance from the flange face	☐	☒	☐	☐	☐	☒
	IIA 10mm	☐	☒	☐	☐	☐	☒
	IIB 30mm	☐	☒	☐	☐	☐	☒
	IIC 40mm	☐	☒	☐	☐	☐	☒
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☐

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☒	☐	☐	☐	☐	☐
	Conductors are all ferrelled and labelled					☒	☐	☐	☐	☐	☐
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☐	☒	☐	☐	☐	☐
	Torque setting has been applied					☐	☒	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied					☐	☒	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied					☐	☒	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	Aircon Control Panel	Manufacturer	WAROM
Model Number	BXX	Serial No	2022041967002 N/A ☐
Certification Number IECEx	CQM 08.0017X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d ib	Gas Group	IIB Ethylene
Temperature Class	T4-135 degrees	Ingress Protection Level IP	IP 65
Type of Glands Fitted	Barrier Red Ring	Material Composition	Cast Aluminum

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☐	☒	☐	☐	☐	☒
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☐	☒	☐	☐	☐	☒
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☐	☒	☐	☐	☐	☒
	Exclusion distance from the flange face IIA 10mm IIB 30mm IIC 40mm	☐	☒	☐	☐	☐	☒
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☒

Apparatus Condition Inspection				N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured			☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum			☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation			☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source			☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition			☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position			☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision			☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only			☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals			☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth			☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings			☐	☒	☐	☐	☐	☒
	Conductors are all ferrelled and labelled			☐	☒	☐	☐	☐	☒
Apparatus Installation				N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation			☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus			☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation			☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place			☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications			☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application			☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing			☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole			☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads			☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive			☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☐	☒	☐	☐
	Torque setting has been applied			☐	☒	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied			☐	☒	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied			☐	☒	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection			☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area			☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection

Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

All internal components are covered under the manufacturers IECEx certification. Installation has been completed in accordance with manufacturers instructions and relevant standards.

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	Light Switch	Manufacturer	EATON
Model Number	GHG2732000R0003	Serial No	N/A ☒
Certification Number IECEx	BKI 07.0036	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d e	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☐	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☒	☐	☐	☐	☐	☐
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☐
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☐
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☐
	Ila 10mm	☐	☐	☐	☐	☐	☐
	Ilb 30mm	☐	☐	☐	☐	☐	☐
	IIC 40mm	☐	☐	☐	☐	☐	☐
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☐

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☒	☐	☐	☐	☐	☐
	Conductors are all ferrelled and labelled					☒	☐	☐	☐	☐	☐
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☐
	Torque setting has been applied					☒	☐	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	Light Fitting	Manufacturer	EATON
Model Number	eLLK 92036/36	Serial No	0280137G2 N/A ☐
Certification Number IECEx	BVS 09.0033	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d e	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☐	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☒	☐	☐	☐	☐	☐
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☐
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☐
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☐
	Ila 10mm	☐	☐	☐	☐	☐	☐
	Ilb 30mm	☐	☐	☐	☐	☐	☐
	IIC 40mm	☐	☐	☐	☐	☐	☐
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☐

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☒	☐	☐	☐	☐	☐
	Conductors are all ferrelled and labelled					☒	☐	☐	☐	☐	☐
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☐
	Torque setting has been applied					☒	☐	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	16A 230VAC Socket Outlet One	Manufacturer	Eaton
Model Number	GHG5114306R0002	Serial No	N/A ☒
Certification Number IECEx	BVS 17.0045 X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d e	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☐	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☒	☐	☐	☐	☐	☐
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☐
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☐
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☐
	IIA 10mm	☐	☐	☐	☐	☐	☐
	IIB 30mm	☐	☐	☐	☐	☐	☐
	IIC 40mm	☐	☐	☐	☐	☐	☐
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☐

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☒	☐	☐	☐	☐	☐
	Conductors are all ferrelled and labelled					☒	☐	☐	☐	☐	☐
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☐
	Torque setting has been applied					☒	☐	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification	Detailed Inspection
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Hazardous Area Identification Information

Equipment Description or ID	16A 230VAC Socket Outlet Two	Manufacturer	Eaton
Model Number	GHG5114306R0002	Serial No	N/A ☒
Certification Number IECEx	BVS 17.0045 X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d e	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Material Composition	Plastic

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☒
Certificate Conditions	Are there conditions in the IECEx certificate	☒	☐	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certified been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Apparatus Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the apparatus have any visible damage	☐	☐	☒	☐	☐	☒
	No corrosion or build up is present that may impact operation	☐	☐	☒	☐	☐	☒
Fixings	All fixings are intact with none missing as per the OEM specifications	☐	☒	☐	☐	☐	☒
	Lubricant and or anti seize has been applied on the threads	☒	☐	☐	☐	☐	☐
IP Rating	Gaskets are fit for purpose and maintain appropriate IP rating	☐	☒	☐	☐	☐	☒
	All entry points appropriately sealed to maintain IP ratings	☐	☒	☐	☐	☐	☒
Glanding	Glands are suitable for the apparatus.	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☐
Glanding	IP washers are fitted to all glands	☐	☒	☐	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
Flame Path	All flange faces are in suitable condition no visible signs of damage or corrosion	☒	☐	☐	☐	☐	☐
	Exclusion distance from the flange face	☒	☐	☐	☐	☐	☐
	IIC 10mm	☐	☐	☐	☐	☐	☐
	IIC 30mm	☐	☐	☐	☐	☐	☐
	IIC 40mm	☐	☐	☐	☐	☐	☐
Labelling	Apparatus is clearly marked for identification as per the OEM dossier	☐	☒	☐	☐	☐	☒
	Cabling is labelled as per the electrical drawing in the OEM dossier	☐	☒	☐	☐	☐	☐

Apparatus Condition Inspection						N/A	Y	N	V	C	D
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured					☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum					☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation					☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source					☐	☐	☒	☐	☐	☒
Internal Components	Visual inspection of the electrical componentry is in good working condition					☐	☒	☐	☐	☐	☒
	Electrical components are all firmly fixed into position					☐	☒	☐	☐	☐	☒
Internal Components	All cabling within the apparatus is colour coded to AS3000 current revision					☐	☒	☐	☐	☐	☒
	Internal earth conductors green and yellow only					☐	☒	☐	☐	☐	☒
Internal Connections	All electrical conductors are terminated correctly to terminals					☐	☒	☐	☐	☐	☒
	Spare conductors are terminated and connected earth					☒	☐	☐	☐	☐	☐
Connections	All electrical conductors are labelled as per the AS BUILT drawings					☒	☐	☐	☐	☐	☐
	Conductors are all ferrelled and labelled					☒	☐	☐	☐	☐	☐
Apparatus Installation						N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation					☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus					☐	☐	☒	☐	☐	☒
Installation	In a manner to maximise longevity and provide reliable operation					☐	☒	☐	☐	☐	☒
	Apparatus is firmly fixed into place					☐	☒	☐	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications					☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application					☐	☒	☐	☐	☐	☒
Threads	No metal swarf from damaged threads showing					☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole					☐	☒	☐	☐	☐	☒
Corrosion Protection	Anti-seize is applied to the threads					☒	☐	☐	☐	☐	☐
	Flange faces have a light suitable grease applied as per the OEM directive					☒	☐	☐	☐	☐	☐
Bolt Torquing S/S	Bolt size	M6-10nm	M8-24nm	M10 -28nm	M12-45nm	☒	☐	☐	☐	☐	☐
	Torque setting has been applied					☒	☐	☐	☐	☐	☐
Sealing	Can the torque setting specified in the certificate be adequately applied					☒	☐	☐	☐	☐	☐
	Has the Minimum of 5 threads of contact been adequately applied					☒	☐	☐	☐	☐	☐
Completion	All items have been reinstated on completion of the inspection					☐	☒	☐	☐	☐	☒
	Is the apparatus safe and ready for use in a Hazardous Area					☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection Apparatus is a good condition and is suitable to use in a HA environment

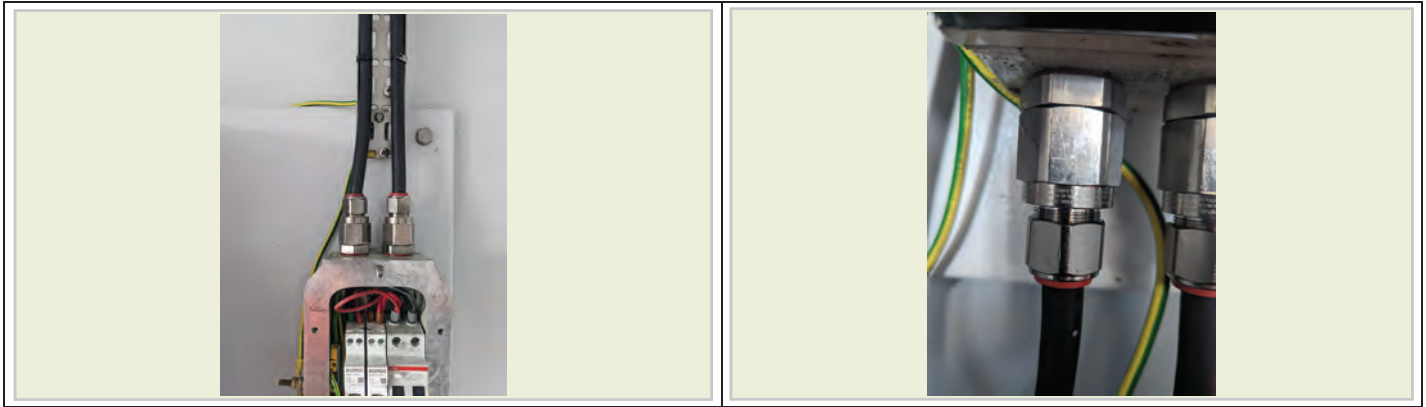
Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification
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Hazardous Area Name Plate Information

Equipment Description or ID	20mm Barrier Gland	Manufacturer	CMP
Model Number	20SPX2KREX1RA5	Serial No	N/A ☒
Certification Number IECEx	CML 18.0182X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	db	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Barrier Red Ring	Number of Glands in this Inspection	Five

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☐
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Gland Condition Inspection

		N/A	Y	N	V	C	D
Condition	Do the glands have any visible damage	☐	☐	☒	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
IP rating	Are the gland/s overall IP rating intact	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☐	☒	☐	☐	☐	☒
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured	☐	☒	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as <i>4mm minimum</i>	☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation	☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source	☒	☐	☐	☐	☐	☐
Cabling	Visual indicators of damage that may affect operational specifications	☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application	☐	☒	☐	☐	☐	☒

Gland Installation

		N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation	☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus	☐	☐	☒	☐	☐	☒
Threads	No metal swarf from damaged threads showing	☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole	☐	☒	☐	☐	☐	☒

Document ME-HAE-IS-Gland	Reviewed By	Dan Versace		Revision R	Revision Date 28.05.2022
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Gland Installation		N/A	Y	N	V	C	D
Sealing	Is there a single Ex reducer with a maximum of a single unit reduction	☒	☐	☐	☐	☐	☒
	Is the Minimum of 5 threads of contact adequately applied	☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection	Apparatus is a good condition and is suitable to use in a HA environment
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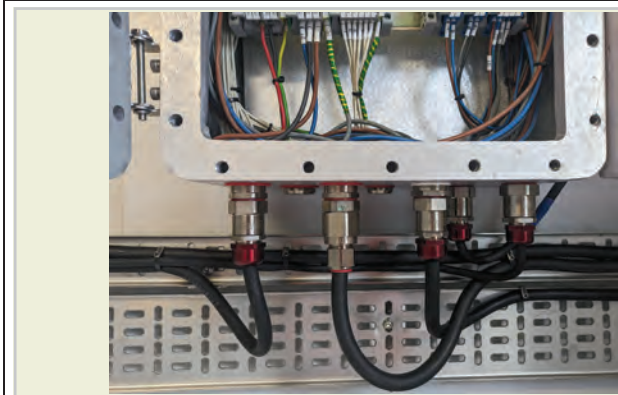
Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment		IECEx Identification						
Hazardous Area Name Plate Information								
Equipment Description or ID	20mm Compression Barrier Gland		Manufacturer CMP					
Model Number	20S16PXSS2KREX1RA5		Serial No			N/A ☒		
Certification Number IECEx	CML 18.0182X		Zone Rating EPL Zone 1/21 Gb/Db					
HA Protection Method	db		Gas Group IIC Hydrogen					
Temperature Class	T6-85 degrees		Ingress Protection Level IP IP 66					
Type of Glands Fitted	Barrier Red Ring		Number of Glands in this Inspection Four					
IECEx Certificate Zone Specifications			N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection		☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified		☐	☒	☐	☐	☐	☐
Certificate Conditions	Are there conditions in the IECEx certificate		☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible		☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone		☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone		☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application		☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located		☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection		☒	☐	☐	☐	☐	☐
Gland Condition Inspection			N/A	Y	N	V	C	D
Condition	Do the glands have any visible damage		☐	☐	☒	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion		☐	☒	☐	☐	☐	☒
IP rating	Are the gland/s overall IP rating intact		☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment		☐	☒	☐	☐	☐	☒
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured		☒	☐	☐	☐	☐	☒
	Equipotential bond to the apparatus has been installed as 4mm minimum		☒	☐	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation		☒	☐	☐	☐	☐	☐
	Is there any indication of an elevated heat source		☒	☐	☐	☐	☐	☐
Cabling	Visual indicators of damage that may affect operational specifications		☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application		☐	☒	☐	☐	☐	☒
Gland Installation			N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation		☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus		☐	☐	☒	☐	☐	☒
Threads	No metal swarf from damaged threads showing		☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole		☐	☒	☐	☐	☐	☒
Document ME-HAE-IS-Gland		Reviewed By	Dan Versace				Revision R	Revision Date 28.05.2022

Gland Installation		N/A	Y	N	V	C	D
Sealing	Is there a single Ex reducer with a maximum of a single unit reduction	☒	☐	☐	☐	☐	☒
	Is the Minimum of 5 threads of contact adequately applied	☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection	Apparatus is a good condition and is suitable to use in a HA environment
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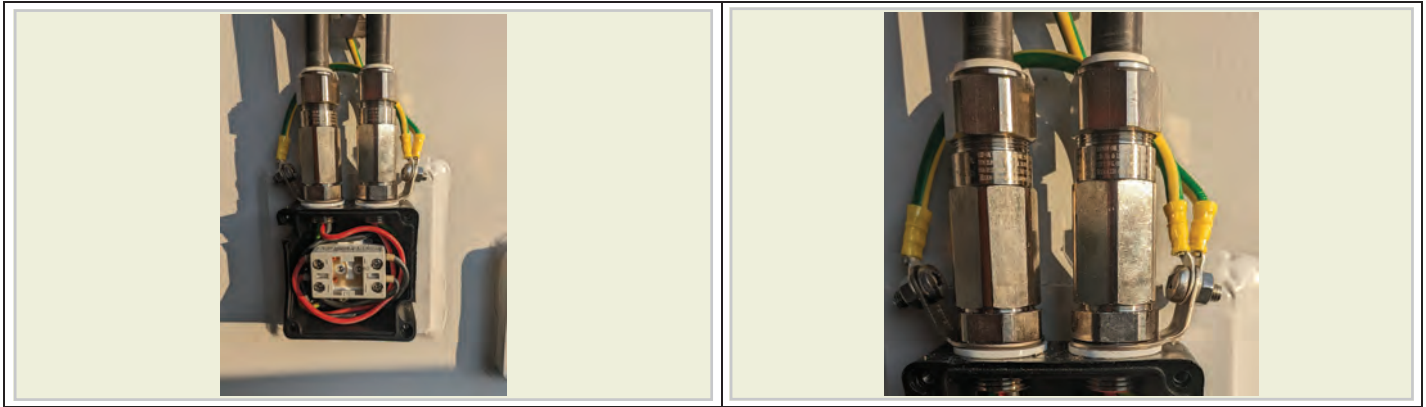
Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification
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Hazardous Area Name Plate Information

Equipment Description or ID	Double Compression Gland	Manufacturer	CMP
Model Number	CMP-UK 25T3CDS M20	Serial No	N/A ☒
Certification Number IECEx	SIR13.0028X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	db	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Type of Glands Fitted	Compression Black Ring	Number of Glands in this Inspection	Five

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☐
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☐	☒	☐	☐	☐	☒

Gland Condition Inspection

		N/A	Y	N	V	C	D
Condition	Do the glands have any visible damage	☐	☐	☒	☐	☐	☒
	Glands are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
IP rating	Are the gland/s overall IP rating intact	☐	☒	☐	☐	☐	☒
	Are barrier glands fitted for all Ex d equipment	☒	☐	☐	☐	☐	☐
Earthing	Earth tags are installed, earth strap fitted, bonded, and firmly secured	☒	☐	☐	☐	☐	☐
	Equipotential bond to the apparatus has been installed as <i>4mm minimum</i>	☐	☒	☐	☐	☐	☒
Encapsulation	Are there any cracks or damage to the encapsulation	☐	☐	☒	☐	☐	☒
	Is there any indication of an elevated heat source	☐	☐	☒	☐	☐	☒
Cabling	Visual indicators of damage that may affect operational specifications	☐	☐	☒	☐	☐	☒
	Is the cable suitable for the application	☐	☒	☐	☐	☐	☒

Gland Installation

		N/A	Y	N	V	C	D
Certificate Conditions	Have they been adhered to for the apparatus installation	☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus	☐	☐	☒	☐	☐	☒
Threads	No metal swarf from damaged threads showing	☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole	☐	☒	☐	☐	☐	☒

Document ME-HAE-IS-Gland	Reviewed By	Dan Versace		Revision R	Revision Date 28.05.2022
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Gland Installation		N/A	Y	N	V	C	D
Sealing	Is there a single Ex reducer with a maximum of a single unit reduction	☐	☐	☒	☐	☐	☒
	Is the Minimum of 5 threads of contact adequately applied	☐	☒	☐	☐	☐	☒

Overall assessment of the apparatus after completion of the inspection	Non Applicable
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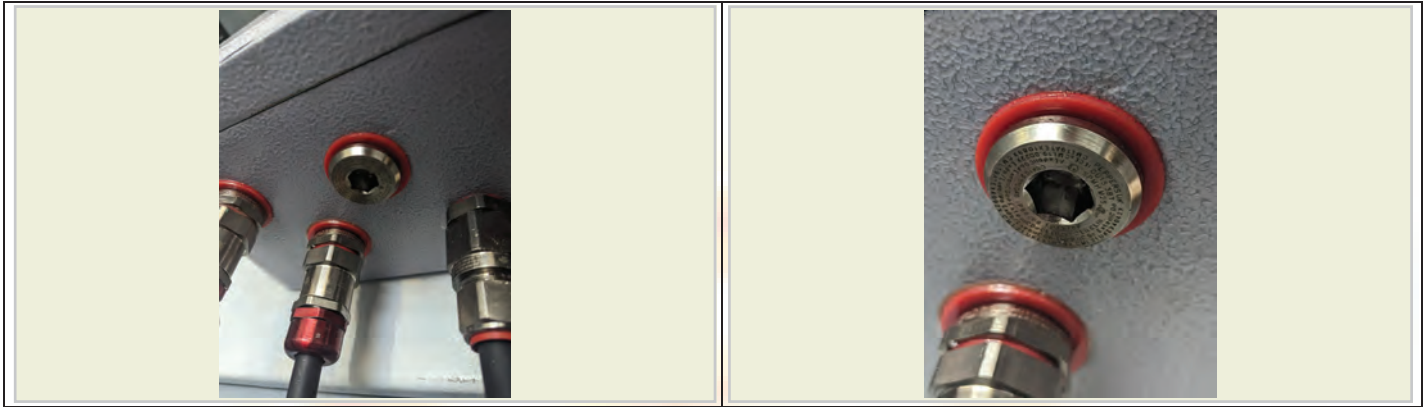
Comments & Recommendations

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification
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Hazardous Area Name Plate Information

Description and Location	Exd Blanking Plugs	Manufacturer	Peppers
Blank /Plug/Cap Thread	Threaded blanking cap	Reducer Dimensions	N/A to N/A
Certification Number IECEx	CML 19.0022X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	d	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Number of Items	Six		

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☐
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Gland Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the blank/plug/reducer have any visible damage	☐	☐	☒	☐	☐	☒
	Blank/plug/reducers are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
IP rating	Are the blank/plug/reducer overall IP rating intact and in good condition	☐	☒	☐	☐	☐	☒
	Visual indicators of any damage that may affect operational specifications	☐	☐	☒	☐	☐	☒
Certificate Conditions	Have they been adhered to for the apparatus installation	☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus	☐	☐	☒	☐	☐	☒
Threads	No metal swarf from damaged threads showing	☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole	☐	☒	☐	☐	☐	☒
Sealing	Is there a single Ex reducer with a maximum of a single unit reduction	☒	☐	☐	☐	☐	☒
	Is the Minimum of 5 threads of contact adequately applied	☐	☒	☐	☐	☐	☒

This report covers all the same types of Blank/Plug/Cap/Reducers. Number of items inspected

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023



Overall Equipment	IECEx Identification
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Hazardous Area Name Plate Information

Description and Location	25-20mm Reducer	Manufacturer	Peppers UK
Blank /Plug/Cap Thread	Reducer	Reducer Dimensions	25mm to 20mm
Certification Number IECEx	CML 19.0022X	Zone Rating EPL	Zone 1/21 Gb/Db
HA Protection Method	db	Gas Group	IIC Hydrogen
Temperature Class	T6-85 degrees	Ingress Protection Level IP	IP 66
Number of Items	One		

IECEx Certificate Zone Specifications

		N/A	Y	N	V	C	D
HA Dossier	Is there a Hazardous Area dossier available for the inspection	☒	☐	☐	☐	☐	☐
IECEx Certification	Has the IECEx certification been located and verified	☐	☒	☐	☐	☐	☐
Certificate Conditions	Are there conditions in the IECEx certificate	☐	☒	☐	☐	☐	☐
IECEx ID	Is the identification plate or HA label legible	☐	☒	☐	☐	☐	☒
Gas Group	Is the apparatus Gas Group suitable for the specified zone	☐	☒	☐	☐	☐	☒
Temperature Class	Correct temperature class rating or better for the specified zone	☐	☒	☐	☐	☐	☒
IP Level	IP level ratings suitable for the specified application	☐	☒	☐	☐	☐	☒
ATEX Stamped only	Has an alternative IECEx certificated been located	☒	☐	☐	☐	☐	☐
IECEx Equivalent	Please attach the equivalent IECEx certificate to this inspection	☒	☐	☐	☐	☐	☐

Gland Condition Inspection

		N/A	Y	N	V	C	D
Condition	Does the blank/plug/reducer have any visible damage	☐	☐	☒	☐	☐	☒
	Blank/plug/reducers are tight and fit for purpose with no build-up of corrosion	☐	☒	☐	☐	☐	☒
IP rating	Are the blank/plug/reducer overall IP rating intact and in good condition	☐	☒	☐	☐	☐	☒
	Visual indicators of any damage that may affect operational specifications	☐	☐	☒	☐	☐	☒
Certificate Conditions	Have they been adhered to for the apparatus installation	☐	☒	☐	☐	☐	☒
	Are there any visual alterations to the apparatus	☐	☐	☒	☐	☐	☒
Threads	No metal swarf from damaged threads showing	☐	☐	☒	☐	☐	☒
	Threads are the full depth of the hole	☐	☒	☐	☐	☐	☒
Sealing	Is there a single Ex reducer with a maximum of a single unit reduction	☒	☐	☐	☐	☐	☒
	Is the Minimum of 5 threads of contact adequately applied	☐	☒	☐	☐	☐	☒

This report covers all the same types of Blank/Plug/Cap/Reducers. Number of items inspected

Technician Name: Thomas Smythe

Technician Signature:



Date of Inspection: 26-Sep-2023