

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx TRC 13.0017X	Page 1 of 5	Certificate history:		
Status:	Current	Issue No: 6	Issue 5 (2018-10-15) Issue 4 (2017-05-26) Issue 3 (2016-02-17) Issue 2 (2014-09-12) Issue 1 (2014-02-03)		
Date of Issue:	2020-08-07				
Applicant:	Teledyne Monitor Labs, Inc 35 Inverness Drive East Englewood, CO 80112 United States of America		Issue 0 (2013-12-24)		
Equipment:	Fixed Gas Detection System, Meridian				
Optional accessory:					
Type of Protection:	Enclosure, Flameproof, Intrinsically Safe				
Marking:	See page 4.				
Approved for issue o Certification Body:	n behalf of the IECEx	Stephen Winsor			
Position:		Certification Manager			
Signature: (for printed version)					
Date:					

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 The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Element Materials Technology Unit 1 Pendle Place Skelmersdale **West Lancashire**





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Manufacturer: Teledyne Monitor Labs, Inc

35 Inverness Drive East Englewood, CO 80112 United States of America

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements Edition:6.0

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:6

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" Edition:6.0

IEC 60079-26:2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

Edition:2

Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

IEC 60079-31:2008 Edition:1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/TRC/ExTR13.0018/01 GB/TRC/ExTR13.0018/02 GB/TRC/ExTR13.0018/03 GB/TRC/ExTR13.0018/05 GB/TRC/ExTR13.0018/06

Quality Assessment Report:

US/ETL/QAR20.0002/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Meridian system is a fixed gas detection system used to measure a variety of gases including a variety of toxic gases, oxygen, and combustible gases. The sensors include electro-chemical type sensors, IR sensors, Cat bead sensors, and MOS sensors. These sensors although marked, are intended to be used as part of the gas detection system only and are not to be used separately.

Performance aspects of the combustible gas detector (w sensor 096-3473-55 and 096-3473-56) are assessed as a part of a separate IECEx approval (Reference IECEx CSA 13.0044).

The system consists of a transmitter, optional junction box, detector head, and sensors. There is a 2 wire and 3/4 wire versions of the system. The 2 wire system is only allowed to have a single E-Chem sensor (PN 096-3473-01 to 096-3473-54) connected. The 3/4 Wire system is allowed to have up to three sensors connected in any combination noted in the table below:

Ambient temperature range -40 °C to 75 °C

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. All openings to the transmitter must sealed using suitable flame-proof, type 'd' stopping boxes or type 'd' glands with a minimum IP rating of IP66.
- 2. All openings to the junction box must sealed using suitable glands with a minimum IP rating of IP66.
- 3. Transmitter and junction boxes must be bonded to ground both internally and externally with suitably sized conductors (IEC/EN 60079-0, cl. 15.3)
- 4. The 2 wire system may only be used with a single electrochemical sensor and must installed in accordance with control drawing 096-3507-B.
- 5. The 3/4 Wire system may be used with one to three sensors and must be installed in accordance with control drawing 096-3506-B.
- 6. The detector head end cap (PN 096-3437-1 or 096-3437-2) must be installed and securely fastened.
- 7. Sensors may only be installed or removed when the area is clean and dry.
- 8. The sensor simulator is only for temporary use under direct supervisions with the following conditions:
- a. To only be used in clean, dry environments
- b. Must be protected from impact
- 9. All wiring used must be specified in accordance with the following conditions:
- a. For Installations Ta < 60° C: Temperature rating of wire must be equal to or greater than 105° C and be a minimum of 18AWG ($1.0mm^2$) for Power and Relay wiring, and be a minimum of 24AWG ($0.2mm^2$) for Low Power Communication wiring.
- b. For Installations Ta \geq 60°C: Temperature rating of wire must be equal to or greater than 120°C and be a minimum of 18AWG (1.0mm²) for Power and Relay wiring, and be a minimum of 24AWG (0.2mm²) for Low Power Communication wiring.
- 10. The equipment shall be regularly cleaned to ensure there is no dust accumulated on the surface in excess of 5mm.



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Equipment (continued):

Markings

Transmitter (PN: 096-3521 and 096-3522):

Ex d [ia Ga] IIC T4 Gb Ex tb [ia Da] III C T85°C Db

Transmitter (PN: 096-3525 and 096-3526):

Ex d [ia Ma] I Mb Ex d [ia Ga] IIC T4 Gb Ex tb [ia Da] III C T85°C Db Junction Box (PN: 096-3475)

Ex ia IIC T4 Gb Ex ia III C T80°C Da

Junction Box (PN: 096-3520)

Ex ia I Ma Ex ia IIC T4 Ga Ex ia III C T80°C Da

Detector Head (PN: 096-3484-1/2 without IR sensors)

Direct Connection to Transmitter

Ex d ia I Mb Ex d ia IIC T4 Gb Ex ia III C T185°C Db

Remote Connection to Transmitter

Ex ia I Ma Ex ia IIC T4 Ga Ex ia III C T185°C Da

Detector Head (PN: 096-3484-3/4) Direct Connection to Transmitter

Ex d ia I Mb Ex d ia IIC T4 Gb Ex ia III C T80°C Db

Remote Connection to Transmitter

Ex ia I Ma Ex ia IIC T4 Ga Ex ia III C T80°C Da

Detector Head (PN: 096-3484-1/2 with IR sensors)

Ex d ia I Mb Ex d ia IIC T4 Gb Ex ia III C T110°C Db

Ambient temperature range -40°C to 75°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The transfer from Scott Safety to Teledyne Monitor Labs with related markings updated to reflect the new company name.
 Addition of the deluge guard (PN 096-34410-B) as an optional accessory for the detector heads.
- A few non-technical changes to the drawings.

Annex:

Annex to IECEx TRC 13.0017X is 6.pdf



Element Materials Technology,

Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, **United Kingdom**

Annex to IECEx Certificate of Conformity

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Meridian 3/4 Wire Transmitter Allowed Sensor combinations:

MERIDIAN 3/4 WIRE TRANSMITTER ALLOWED					
	SENSOR COMBINATIONS				
(USE ONLY WITH IS BARRIER ASSEMBLY 096-3448)					
Sensor #1 Sensor #2 Sensor #3					
	ECHEM *	ECHEM *			
ECHEM *	O ₂ **	ECHEM *			
	O ₂ **	O ₂ **			
	ECHEM *				
O ₂ (096-3473-19)	O ₂ **	ECHEM *			
(096-3473-19)	O ₂ **	O ₂ **			
сомвизтивые	ECHEM *	ECHEM *			
CAT BEAD	O ₂ **	ECHEM *			
(096-3473-55)	O ₂ **	O ₂ **			
	ECHEM *	ECHEM *			
MOS (096-3473-57)	O ₂ **	ECHEM *			
(050-5475-57)	O ₂ **	O ₂ **			
	STOP	STOP			
IR - CO ₂ (096-3473-58)	O ₂ **	STOP			
(030-3473-38)	STOP	STOP			
сомвизтивые	STOP	STOP			
IR	02**	STOP			
(096-3473-56)	STOP	STOP			
STOP = WARNING - DO NOT USE THESE					
COMBINATIONS UNDER ANY CIRCUMSTANCES.					

THEY ARE NOT INTRINSICALLY SAFE AND CAN CAUSE EXPLOSION.

> * ECHEM SENSOR PART NUMBERS 096-3473-01 THRU 096-3473-18, 096-3473-20 THRU 096-3473-54, AND SENSOR SIMULATOR 096-3395

++ OXYGEN SENSOR PART NUMBER 096-3473-19.

Transmitter

The transmitter is a flame-proof device that houses the power supply, display, optional communications, and the intrinsic safety barriers that limit the energy to the detector head/sensors. There are a couple different models of the transmitter. They are outlined below:



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Part Number	Description
096-3521	2 Wire Transmitter housed in an Aluminum Housing.
096-3522	3/4 Wire Transmitter housed in an Aluminum Housing.
096-3525	2 Wire Transmitter housed in a Stainless Steel Housing.
096-3526	3/4 Wire Transmitter housed in a Stainless Steel Housing.

<u>Cable Gland (PN 096-3483</u>): This cable gland is used on the transmitter when a remote installation is required.

Junction Box

The Junction Box is an optional component that can be used in a remote connection of a single sensor in a 2 wire or 3/4 system. It is also used in 3/4 Wire system when more than one sensor is to be used. All power in the Junction box is intrinsically safe and is limited from the IS barriers located in the transmitter. There are two different versions of the junction box. The only difference between the models is the housing. Below are the model numbers and descriptions.

Part Number	Description
096-3475	Aluminum Housing
096-3420	Stainless Steel Housing

Detector Head

The detector head is the housing/interface for all the sensor modules. The detector may be installed directly to the transmitter. In this situation, the detector head incorporates a flame-proof cable gland and no further seal or stopping box is required to be included. It may also be located remotely from the transmitter. There are fundamentally two versions of the Detector Head. There is a 2 wire version and a 3/4 wire version. In addition, each of these detector heads is allowed to use either the stainless steel (PN 096-3437-2) or non-metallic (PN 096-3437-1) end caps. Below are the model numbers and descriptions.

Part Number	Description
096-3484-1	3/4 Wire Detector Head with non-metallic end cap (PN 096-3437-1)
096-3484-2	3/4 Wire Detector Head with stainless steel end cap (PN 096-3437-2)
096-3484-3	2 Wire Detector Head with non-metallic end cap (PN 096-3437-1)
096-3484-4	2 Wire Detector Head with stainless steel end cap (PN 096-3437-2)



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Sensors

All the sensors are required to be installed inside the detector head. Any of the sensors noted below will connect to the detector head.

E-Chem (PN 096-3473-01 thru 096-3474-54)

These sensors are typical electro-chemical type sensors used to sense both toxic gases and oxygen. These may be used with either the 2 wire or 3/4 Wire systems.

MOS (PN 096-3473-57)

This sensor may only be used with the 3/4 Wire system. This sensor utilizes a H2S sensor (Synkera, PN 727-1).

Cat Bead (PN 096-3473-55)

This sensor may only be used with the 3/4 Wire system. This sensor utilizes a LEL combustible gas sensor (SGX, PN VQ548ZD).

IR Combustible (PN 096-3473-56)

This sensor may only be used with the 3/4 Wire system. The sensor utilizes an IR sensor (SGX, PN IR12GJS).

IR CO₂ (096-3473-58)

This sensor may only be used with the 3/4 Wire system. The sensor utilizes an IR sensor (SGX, PN IR11GJS).

Accessories

Sensor Simulator (PN 096-3395)

The sensor simulator may be used with either the 2 Wire or 3/4 Wire system. This device is intended to be used to perform maintenance function with the system only.

Deluge Guard (PN 096-3441-B)

This is an optional non-metallic cover that fits onto the end of the detector head.



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Routine Tests

- 1. The intrinsic safety barriers are required to be 100% tested to verify proper operation and the nominal resistance of the fuse verified.
- 2. Each batch of Potentiometers (Honeywell, PN 392JB5K) must be tested to verify the following:
 - a. Inductance ≤ 60.0mH
- 3. Each batch of MOS Sensors (Synkera, PN 727-1) must be tested to verify the following:
 - a. Inductance ≤ 2.0uH (Pins 1 to 3)
 - b. Capacitance ≤ 0.5uFcombined (Pin 1 to 4, Pin 2 to 3, and Pin 2 to 4)
- 4. Each batch of CAT Bead Sensors (SGX, PN VQ548ZD) must be tested to verify the following:
 - a. Detector
 - i. Inductance ≤ 1.0uH
 - b. Comparator
 - i. Inductance ≤ 1.0uH
- 5. The aluminium transmitter housing (Limatherm, PN XD-120win) shall be subject to 100% routine over-pressure testing to a minimum pressure of 15.12 Bar in accordance with IEC/EN60079-1, Cl. 15.1.3. As result, there shall be no leakage through the walls of the enclosure, damage, or deformation to the joints or housing.

CSF-353 2.0



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Special conditions for manufacture:

- 1. The detector head and gland, PN 096-3483 must have the sealing nut torqued to at least 58ft-lbs.
- 2. The detector head and gland, PN 096-3483, shall have NPT threads verified (100% inspection or statistical techniques, as appropriate) to ensure:
 - a. They have an effective thread length not less than 'L2" dimension, and
 - b. They have a length not less than the "L4" dimension between the face of the shoulder and the end of the fitting.

CSF-353 2.0

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Element Materials Technology, Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom

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Manufacturer's Documents

Drawing No.:	Rev. Level:	Date:
016-1011	D	2020-03-04
016-1023-IEC	D	2020-03-03
016-1024-IEC	D	2020-03-03
016-1026-R	G	2020-03-03
016-1028-IEC	F	2020-02-19
016-1029-IEC	Е	2020-02-19
016-1035-R	E	2020-06-05
016-1036-R	E	2020-06-05
016-1037-IEC	G	2020-02-19
016-1038-IEC	Е	2020-02-19
016-1039-IEC	Е	2020-02-19
016-1040-IEC	Е	2020-02-19
016-1041-IEC	С	2020-02-19
016-1042-IEC	С	2020-02-19
016-1043-IEC	D	2020-03-03
016-1044-IEC	D	2020-03-03
	016-1011 016-1023-IEC 016-1024-IEC 016-1026-R 016-1028-IEC 016-1035-R 016-1036-R 016-1037-IEC 016-1039-IEC 016-1049-IEC 016-1049-IEC	016-1011 D 016-1023-IEC D 016-1024-IEC D 016-1026-R G 016-1028-IEC F 016-1029-IEC E 016-1035-R E 016-1036-R E 016-1037-IEC G 016-1038-IEC E 016-1039-IEC E 016-1040-IEC E 016-1041-IEC C 016-1042-IEC C 016-1043-IEC D



Title:	Drawing No.:	Rev. Level:	Date:
*Label, MOS/CB Sensor Assembly, Meridian (1 Sheet)	016-1049-R	С	2020-03-03
*Label, IR Sensor Assy, Meridian (1 Sheet)	016-1050-R	С	2020-03-03
*Label, Identification Cap Assembly (Stainless Steel) (1 Sheet)	016-1073-R	С	2020-03-09
*Label, Identification Cap Assembly (Stainless Steel) (1 Sheet)	016-1074-R	С	2020-03-09
Label, Meridian Enclosure Info (1 Sheet)	016-1075-R	D	2015-01-03
Plug, sensor, 8 Pin (1 Sheet)	018-0494-R	D	2012-11-26
Receptacle, Sensor, 8 Contact (1 Sheet)	018-0495-R	С	2012-11-26
Washer, Seal, Sensor, Meridian (1 Sheet)	023-0033-R	D	2012-08-16
Meridian TX – ¾ Wire, 2 Wire, IS Barrier PCB Artwork (1 Sheet)	042-0475-A	D	2013-03-04
Meridian TC – ¾ Wire, 2 Wire, IS Barrier PCB Drill/Fab (1 Sheet)	042-0475-D	D	2013-02-28
Meridian Transmitter – ¾ Wire Power Supply PCB Artwork (1 Sheet)	042-0476-A	С	2013-03-01
Meridian Transmitter – ¾ Wire Power Supply PCB Drill/Fab (1 Sheet)	042-0476-D	E	2014-06-20
Meridian Transmitter – Terminal/Relay PCB Artwork (1 Sheet)	042-0479-A	С	2013-08-14
Meridian Transmitter – Terminal/Relay PCB Drill/Fab (1 Sheet)	042-0479-D	D	2014-0-20
Meridian – ¾ Wire Detector Head PCB Artwork (1 Sheet)	042-0480-A	С	2012-11-19
Meridian – ¾ Wire Detector Head PCB Drill/Fab (1 Sheet)	042-0480-D	D	2014-06-25
Meridian Transmitter – 2 Wire Detector Head PCB Artwork (1 Sheet)	042-0481-A	С	2013-08-13
Meridian Transmitter – 2 Wire Detector Head PCB Drill/Fab (1 Sheet)	042-0481-D	D	2014-06-25
Meridian Transmitter – 2 wire Power Supply PCB Artwork (1 Sheet)	042-0482-A	А	2013-02-18
Meridian Transmitter – 2 Wire Power Supply PCB Drill/Fab (1 Sheet)	042-0482-D	В	2014-06-20
Meridian Sensor – Interface PCB Artwork (1 Sheet)	042-0485-A	В	2012-11-19



Title:	Drawing No.:	Rev. Level:	Date:
Meridian Sensor – Interface PCB Drill/Fab (1 Sheet)	042-0485-D	С	2014-06-25
Meridian Sensor – Personality PCB – 3 electrode, Oxidizing, Zero Bias (CO, H2S, ETC) artwork (1 Sheet)	042-0486-A	В	2013-01-11
Meridian Sensor – Personality PCB – 3 Electrode, Oxidizing, Zero Bias (CO, H2S, Etc) Drill/Fab (1 Sheet)	042-0486-D	С	2014-06-25
Meridian Sensor – Personality PCB – 3 Electrode, Oxidizing, w Bias (NO, ETO, Etc) Artwork (1 Sheet)	042-0487-A	В	2013-01-11
Meridian Sensor – Personality PCB – 3 Electrode, Oxidizing, w Bias (NO, ETO, Etc) Drill/Fab (1 Sheet)	042-0487-D	С	2014-06-25
Meridian Sensor – Personality PCB – 2 Electrode, Oxidizing w Bias (HCN, B2H6, etc.) Artwork (1 Sheet)	042-0488-A	В	2013-01-11
Meridian Sensor – Personality PCB – 2 Electrode, Oxidizing w Bias (HCN, B2H6, etc.) Drill/Fab (1 Sheet)	042-0488-D	С	2014-06-25
Meridian Sensor – Personality PCB – 2 Electrode, Reducing, Zero Bias (O2) Artwork (1 Sheet)	042-0489-A	В	2013-01-09
Meridian Sensor – Personality PCB – 2 Electrode, Reducing, Zero Bias (O2) Drill/Fab (1 Sheet)	042-0489-D	С	2014-06-25
Meridian Sensor – Personality PCB – 2 electrode, Reducing, W/Bias (CL2,HCL,etc) Artwork (1 Sheet)	042-0490-A	В	2013-01-11
Meridian Sensor – Personality PCB – 2 electrode, Reducing, W/Bias (CL2,HCL,etc) Drill/Fab (1 Sheet)	042-0490-D	С	2014-06-25
Meridian Sensor – Personality PCB – 2 Electrode, Reducing, W/ Bias (NO2, CH3I, Etc) Artwork (1 Sheet)	042-0491-A	В	2013-01-11
Meridian Sensor – Personality PCB – 2 Electrode, Reducing, W/ Bias (NO2, CH3I, Etc) Drill/Fab (1 Sheet)	042-0491-D	С	2014-06-25



Title:	Drawing No.:	Rev. Level:	Date:
Meridian Sensor – Personality PCB – 3 Electrode, Reducing, Zero Bias (CL2, F2, Etc) Artwork(1 Sheet)	042-0492-A	В	2013-01-11
Meridian Sensor – Personality PCB – 3 Electrode, Reducing, Zero Bias (CL2, F2, Etc) Drill/Fab (1 Sheet)	042-0492-D	С	2014-06-25
Meridian Sensor – Personality PCB 3V Cat Bead (e2v) Artwork (1 Sheet)	042-0493-A	В	2013-01-20
Meridian Sensor – Personality PCB 3V Cat Bead (e2v) Drill/Fab (1 Sheet)	042-0493-D	С	2014-06-25
Meridian Sensor – Personality PCB (IR-Combustible) artwork (1 Sheet)	042-0494-A	В	2012-11-29
Meridian Sensor – Personality PCB (IR- Combustible) artwork - Alternate (1 Sheet)	042-0494-A	С	2013-10-15
Meridian Sensor – Personality PCB (IR-Combustible) Drill/Fab (1 Sheet)	042-0494-D	В	2012-11-29
Meridian Sensor – Personality PCB (IR-Combustible) Drill/Fab - Alternate(1 Sheet)	042-0494-D	D	2014-06-23
Meridian Sensor – Personality PCB – Sensor Simulator Artwork (1 Sheet)	042-0496-A	С	2013-09-24
Meridian Sensor – Personality PCB – Sensor Simulator Drill/Fab (1 Sheet)	042-0496-D	D	2014-06-25
Meridian Sensor – Kernel PCB (4 Series Toxic & 4600 E-Chem) Artwork (1 Sheet)	042-0497-A	В	2013-01-10
Meridian Sensor – Kernel PCB (4 Series Toxic & 4600 E-Chem) Drill/Fab (1 Sheet)	042-0497-D	С	2014-06-25
Meridian Sensor – Kernel PCB (4600 Rock Solid) Artwork (1 Sheet)	042-0498-A	В	2013-01-17
Meridian Sensor – Kernel PCB (4600 Rock Solid) Drill/Fab (1 Sheet)	042-0498-D	С	2014-06-25
Meridian Sensor – Kernel PCB (4 Series Combustible) Artwork (1 Sheet)	042-0500-A	В	2013-01-20
Meridian Sensor – Kernel PCB (4 Series Combustible) Drill/Fab (1 Sheet)	042-0500-D	С	2014-06-25
Meridian Sensor – Pin PCB (4600 E-Chem) artwork (1 Sheet)	042-0502-A	В	2013-01-17
Meridian Sensor- Pin PCB (4600 E-Chem Drill/Fab) (1 Sheet)	042-0502-D	В	2013-01-17



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Title:	Drawing No.:	Rev. Level:	Date:
Meridian Sensor – Kernel PCB (IR- Combustible) Artwork (1 Sheet)	042-0503-A	В	2012-11-29
Meridian Sensor – Kernel PCB (IR – Combustible) Drill/Fab (1 Sheet)	042-0503-D	С	2014-06-25
Meridian Sensor – MOS Pin PCB Artwork (1 Sheet)	042-0505-A	В	2012-11-13
Meridian Sensor – MOS Pin PCB Drill/Fab (1 Sheet)	042-0505-D	В	2012-11-13
Meridian Sensor – Kernel PCB Sensor Simulator Artwork (1 Sheet)	042-0507-A	В	2013-01-16
Meridian Sensor – Kernel PCB Sensor Simulator Drill/Fab (1 Sheet)	042-0507-D	С	2014-06-25
Meridian Transmitter – Junction Box PCB Artwork (1 Sheet)	042-0509-A	В	2013-01-25
Meridian Transmitter – Junction Box PCB Drill/Fab (1 Sheet)	042-0509-D	В	2013-01-25
Meridian Sensor – MOS (w heater) Personality PCB Artwork (1 Sheet)	042-0511-A	A	2012-11-15
Meridian Sensor – MOS (w heater) Personality PCB Drill/Fab (1 Sheet)	042-0511-D	В	2014-06-25
Meridian Sensor – MOS (w heater) Kernel PCB Artwork (1 Sheet)	042-0512-A	A	2012-11-15
Meridian Sensor – MOS (w heater) Kernel PCB Drill/Fab (1 Sheet)	042-0512-D	В	2014-06-25
Dowel Pin, .1232 Dia X 1.00 LG, SS (1 Sheet)	073-0342-R	D	2015-06-23
Housing, Detector Body, Meridian (1 Sheet)	073-0343-R	С	2013-02-07
Screen, detector Cap, Meridian (1 Sheet)	073-0345-R	D	2013-08-30
*Cap, detector Head, Stainless Meridian (1 Sheet)	073-0349-R	D	2019-12-30
Junction Box, Meridian, Aluminum with Mounting Bracket (1 Sheet)	073-0367-R	E	2013-08-07
Body, Detector Gland (1 Sheet)	073-0368-R	G	2013-12-06
Cap, Detector Gland (1Sheet)	073-0369-R	С	2013-08-27
Follower, Detector Gland (1 Sheet)	073-0370-R	С	2013-08-27
Pin .125 Dia x .375L (1 Sheet)	073-0371-R	С	2013-01-02



Title:	Drawing No.:	Rev. Level:	Date:
*Body, ¾" NPT to ¾" NPT (1 Sheet)	073-0372-R	L	2020-06-10
Junction Box, meridian, Stainless Steel with Mounting Bracket (1 Sheet)	073-0375-R	С	2014-06-24
Plate, Aluminum, 2.50 x 2.50 x .063 (1 Sheet)	073-0381-R	A	2013-08-12
*Universal, Sensor Body, Style 1, Next Gen (1 Sheet)	074-0516-R	G	2018-10-22
*Universal sensor Cap, Style 1, Next-Gen (1 Sheet)	074-0517-R	F	2018-10-22
*Universal, Sensor Body, Style 2,Next-gen (1 Sheet)	074-0518-R	F	2018-10-22
*Universal Sensor Cap, Style 2, next-Gen (1 Sheet)	074-0519-R	F	2018-10-22
Meridian IS Barrier Case (1 Sheet)	074-0527-R	Н	2016-03-31
Meridian IS terminal Block Cover (1 Sheet)	074-0528-R	F	2013-01-30
*Cap, Detector Head, Molded Meridian (2 Sheets)	074-0531-R	G	2019-12-31
*Body, Deluge Guard, Detector, Meridian (1 Sheet)	074-0538-R	Е	2011-09-19
*Baffle, Deluge Guard, Detector(1 Sheet)	074-0539-R	F	2013-09-18
Potting Shell, Detector PCB Meridian (1 Sheet)	074-0540-R	В	2012-12-12
*End-Cap, Deluge Guard, Detector, Meridian (1 Sheet)	074-0542-R	E	2013-09-19
*Deflector, Deluge Guard, Detector, Meridian (1 Sheet)	074-0571	В	2019-09-19
*Holder, Magnet Tool Meridian (1 Sheet)	074-0573-R	F	2020-05-27
Cap, Sensor, EMI, Meridian (1 Sheet)	074-0580-R	В	2014-06-23
Cover, Bottom, J-Box PCB (1 Sheet)	074-0591-R	A	2013-08-01
Cover, Top, J-Box PCB (1 Sheet_	074-0592-R	А	2013-08-01
Sleeve, Rubber, Strain Relief, Meridian (1 Sheet)	077-1387-R	В	2013-02-15
Grafoil, Sealant Detector Gland (1 Sheet)	077-1405-R	С	2013-01-02
Ceramic Sealant, detector Gland (1 Sheet)	077-1406-R	С	2013-01-03



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Magnet, Meridian Tool (1 Sheet)	077-1408-R	С	2013-10-09
*Ball Chain (1 Sheet)	077-1409-R	С	2018-04-13
Mount, Chain Ball (1 Sheet)	077-1411-R	В	2013-10-03
Insulation, Pad, Wire IS Barrier (1 Sheet)	077-1418-R	В	2013-10-08
Pad Thermally Conductive 2.50" Sq. (1 Sheet)	077-1419-R	A	2013-08-15
*Manual/User Guide (228 Sheets)	087-0049	G	2020-06
Enclosure, Meridian, Aluminum (1 Sheet)	093-0572-1-R	F	2013-10-07
Enclosure, meridian, Stainless Steel (1 Sheet)	093-0572-2-R	F	2013-10-07
Assy, Sensor Simulator, Meridian (1 Sheet)	096-3395-EX	A	2014-09-03
Meridian Transmitter – 2 Wire – IS Barrier PCB Assembly (1 Sheet)	096-3400-1-B	F	2014-07-03
Meridian Transmitter – 2 Wire IS Barrier Schematic (1 Sheet)	096-3400-1-S	D	2013-03-04
Meridian Transmitter – ¾ Wire IS Barrier PCB Assembly (1 Sheet)	096-3400-B	F	2014-07-03
Meridian Transmitter – ¾ Wire Tx IS Barrier Schematic (1 Sheet)	096-3400-S	D	2013-03-04
Meridian Transmitter – ¾ Wire Power Supply PCB Assembly (1 Sheet)	096-3401-B	E	2015-10-13
Meridian Transmitter – ¾ Wire Power Supply Schematic (1 Sheet)	096-3401-S	С	2013-03-01
Meridian Transmitter – Terminal/relay PCB Assembly (1 Sheet)	096-3404-B	С	2013-08-14
Meridian Transmitter – Terminal/Relay Schematic (1 Sheet)	096-3404-S	С	2013-08-14
Meridian – ¾ Wire Detector Head PCB Assembly (1 Sheet)	096-3405-B	С	2012-12-10
Meridian – ¾ Wire Detector Head PCB Schematic (1 Sheet)	096-3405-S	С	2012-11-19
Meridian Transmitter – 2 wire Detector Head PCB Assembly (1 Sheet)	096-3406-B	С	2013-08-13
Meridian Transmitter – 2 wire Detector Head PCB Schematic(1 Sheet)	096-3406-S	С	2013-08-13



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Meridian Transmitter – 2 Wire Power Supply PCB Assembly (1 Sheet)	096-3407-В	В	2014-06-20
Meridian Transmitter – 2 Wire Power Supply PCB Schematic (1 Sheet)	096-3407-S	A	2013-02-28
Meridian Sensor, Interface PCB Assembly (1 Sheet)	096-3410-B	С	2013-04-19
Meridian Sensor – Interface PCB Schematic (1 Sheet)	096-3410-S	В	2012-11-19
Meridian Sensor – Personality PCB 3V Cat Bead (e2v) assembly (1 Sheet)	096-3418-B	В	2013-01-20
Meridian Sensor – Personality PCB 3V Cat Bead (e2v) Schematic (1 Sheet)	096-3418-S	В	2013-01-20
Meridian Sensor – Personality PCB (IR-CO2) Assembly (1 Sheet)	096-3419-1-B	С	2013-10-14
Meridian Sensor – Personality PCB (IR-CO2) Assembly (1 Sheet)	096-3419-1-B	D	2013-10-17
Meridian Sensor-Personality PCB (IR-CO2) Schematic (1 Sheet)	096-3419-1-S	A	2013-02-20
Meridian Sensor – Personality PCB (IR-Combustible) Assembly (1 Sheet)	096-3419-B	С	2013-10-14
Meridian Sensor – Personality PCB (IR-Combustible) Assembly - Alternate (1 Sheet)	096-3419-B	D	2013-10-17
Meridian Sensor – Personality PCB (IR-Combustible) Assembly (1 Sheet)	096-3419-B	E	2017-04-17
Meridian Sensor – Personality PCB (IR-Combustible) schematic (1 Sheet)	096-3419-S	С	2017-04-17
Meridian Sensor – Kernel PCB (4 Series Toxic & 4600 E-Chem) Assembly (1 sheet)	096-3422-B	В	2013-01-10
Meridian Sensor – Kernel PCB (4 Series Toxic & 4600 E-Chem) Schematic (1 sheet)	096-3422-S	В	2013-01-10
Meridian Sensor – Kernel PCB (4600 Rock Solid) Assembly (1 Sheet)	096-3423-B	В	2013-01-18
Meridian Sensor – Kernel PCB (4600 Rock Solid) Schematic (1 Sheet)	096-3423-S	В	2013-01-18
Meridian Sensor – Pin PCB (4600 Rock Solid) Assembly (1 Sheet)	096-3424-B	В	2013-01-18
Meridian Sensor – Kernel PCB (4 Series Combustible) Assembly (1 Sheet)	096-3425-В	В	2013-01-20



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Meridian Sensor – Kernel PCB (4 Series Combustible) Schematic (1 Sheet)	096-3425-S	В	2013-01-20
Meridian sensor – Pin PCB (4600 E-Chem) Assembly (1 Sheet)	096-3427-B	В	2013-01-18
Meridian Sensor – Kernel PCB (IR-Combustible) Assembly (1 sheet)	096-3428-B	С	2012-11-28
Meridian Sensor – Kernel PCB (IR-Combustible) Schematic (1 Sheet)	096-3428-S	В	2012-11-28
Meridian Sensor – MOS PIN PCB Assembly (1 Sheet)	096-3430-B	С	2013-04-22
Meridian Sensor – MOS PIN PCB Schematic (1 Sheet)	096-3430-S	В	2012-11-14
Meridian Sensor – Kernel PCB Sensor – Simulator Assembly (1 Sheet)	096-3432-B	С	2013-08-13
Meridian Sensor – Kernel PCB Sensor – Simulator Schematic (1 Sheet)	096-3432-S	В	2013-01-16
Meridian Transmitter – Junction Box PCB Schematic (1 Sheet)	096-3434-B	D	2014-07-03
Meridian Transmitter – Junction Box PCB Schematic (1 Sheet)	096-3434-S	В	2013-01-25
*Assembly. Detector Body,meridian (3 Sheets)	096-3436-В	G	2014-08-22
*Assembly, Cap, Detector Head (1 Sheet)	096-3437-B	G	2020-06-09
*Assembly, Deluge Guard, Detector, Meridian (1 Sheet)	096-3441-B	F	2020-06-10
*Meridian ¾ Wire Tx IS Barrier Assembly (1 Sheet)	096-3448-B	G	2020-06-16
*Meridian 2 Wire TX IS Barrier Assembly (1 Sheet)	096-3449-B	Е	2020-06-17
Assembly, MOS Kernel, Synkera (1 Sheet)	096-3460-B	В	2013-03-07
Fixed Gas Sensor Schedule Drawing (20 Sheets)	096-3468-EX	J	2015-09-11
*Junction Box Assembly, Meridian Aluminum (1 Sheet)	096-3475-EX	В	2020-06-17
Meridian Transmitter – ¾ Wire Detector Head – PCB Assembly – Potted (1 sheet)	096-3478-B	В	2012-12-12



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Meridian Transmitter – 2 Wire Detector Head – PCB Assembly – Potted (1 sheet)	096-3479-В	В	2012-12-12
3/4" NPT to 3/4" NPT Wire Gland Assembly (2 Sheets)	096-3483-B	D	2013-06-18
*Detector Head End Cap Assembly (4 Sheet)	096-3484-EX	D	2020-07-13
*Meridian ¾ Wire TX Intrinsically Safe Installation Diagram For Integrated or Remote Detector Applications (Control Drawing) (4 Sheets)	096-3506-B	Н	2020-06-10
*Meridian 2 Wire TX Intrinsically Safe Installation Diagram For Integrated or Remote Detector Applications (Control Drawing) (1 Sheet)	096-3507-B	F	2020-06-10
SGX IR1 Series Sensor (IR CO2) (1 Sheet)	096-3509-B	В	2013-09-26
SGX Cat bead 4 Series Sensor (LEL Combustible) (2 Sheet)	096-3510-B	С	2013-10-04
Meridian sensor – MOS (W/Heater) Personality PCB Assembly (1 Sheet)	096-3511-B	В	2013-04-22
Meridian sensor – MOS (W/Heater) Personality PCB Schematic (1 Sheet)	096-3511-S	A	2012-11-15
Meridian Sensor – MOS (w/Heater) Kernel PCB Schematic (1 Sheet)	096-3512-B	В	2013-04-22
Meridian Sensor – MOS (w/Heater) Kernel PCB Schematic (1 Sheet)	096-3512-S	A	2012-11-15
Synkera Mikrokera 727-1 H2S Sensor (MCD 093-0580) (2 Sheets)	096-3517-B	С	2013-10-04
SGX IR1 Series Sensor LEL Combustible (1 Sheet)	096-3519-B	В	2013-09-26
*Junction Box Assembly, meridian Stainless Steel (1 Sheet)	096-3520-EX	В	2020-06-17
Meridian 2 Wire Transmitter Aluminum (1 Sheet)	096-3521-EX	С	2013-08-19
Meridian 3/4 Wire Transmitter Aluminum (1 Sheet)	096-3522-EX	В	2013-09-10
Meridian 2 Wire Transmitter Stainless Steel (1 Sheet)	096-3525-EX	С	2013-08-19



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Meridian 3/4 Wire Transmitter Stainless Steel (1 Sheet)	096-3526-EX	В	2013-09-10
*Meridian ¾ Wire TX allowed Sensor Combination Chart (1 Sheet)	099-0043	D	-
Meridian Sensor/Transmitter PCB Block Diagram (1 Sheet)	099-0044	С	2014-06-25
Meridian Communication Expansion Card Specs (3 Sheets)	099-0045	С	N/A



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.