

TECHNICAL DATA PACKAGE



Table of Contents

- 1 Meridian Overview
- **2** Meridian Specifications
- **4** Supported Gases
- **5** Multi Sensor Configurations
- 6 Technical Drawings
- 16 Accessories

MERIDIAN OVERVIEW



TRUE UNIVERSAL PLATFORM

- Single Transmitter for Combustible and Toxic Applications
- Single Sensor Interface Plug & Play Design
- Single User Interface
- Common Accessories & Installation Process
- Compatible with industry standard Gateways and Controllers

ADVANCEMENTS IN SENSOR TECHNOLOGY

- Electrochemical, Infrared, Catalytic Bead and Solid State Sensors
- Scott Rock Solid™ Sensor Technology
- All sensors can be replaced under power in hazardous locations
- Electrochemical sensors offer support for multiple ranges with one sensor
- Calibration of electrochemical sensors is range invariant

MULTIPLE COMMUNICATION PROTOCOLS

- 4-20 mA, Modbus are standard
- Wired HART (option)
- Wireless HART, ISA100.11A (options)

GLOBAL APPROVALS

- Designed to the highest international standards for global use
- SIL-2 certified by TUV-Rheinland



MERIDIAN SPECIFICATIONS

IceCex, cCA _{ue} , ATEX, INMETRO, EURASIAN CUSTOMS UNION, CHINA EX, CCCF, RCM, PCC, INDUSTRY CANADA, CE, ANATEL, MARINE DIRCTIVE - SHIP'S WHEEL, ABS SIL-2 (Third Party Certification by TUV-Rheinland)Case IDIx: I croup ABCD, Class IDIx: I foroup EFG, Class III Equipment Group I/II, Zone 0/20 & Zone 1/21, IICEnvironmental	Certifications		
Area ClassificationZone 0/20 & Zone 1/21, IICZone 0/20 & Zone 1/21, IICEnvironmentalControl ClassificationControl ClassificationTransmitter SpecificationControl ClassificationOperating Voltage 3/4 Wire10 -30 VDC (24 VDC nominal)Operating Voltage 3/4 Wire10 -30 VDC (24 VDC nominal)Operating Voltage 2 Wire, 3 wire, 4 wireOperating Voltage 2 Wire18 -30 VDC (24 VDC nominal)Operating Voltage 2 WireOperating Voltage 2 Wire <td< td=""><td>Global Approvals</td><td>FCC, INDUSTRY CANADA, CE, ANATEL, MARINE DIRECTIVE - SHIP'S WHEEL, ABS</td></td<>	Global Approvals	FCC, INDUSTRY CANADA, CE, ANATEL, MARINE DIRECTIVE - SHIP'S WHEEL, ABS	
Operating Temperature-40° to 167° Fahrenheit / -40° to 75° CelsiusHumidity5-95% RH (non condensing)Storage Temperature-67° to 167° Fahrenheit / -55° to 75° CelsiusTransmitter Specification2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Vire18-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption22 - 3.2 Watts based on sensor configurationAdd 2.6 Watts to any configuration if heated display is usedCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Communication ProtocelsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkMaximum 4-20 loop load Ohms (@24 VDC)3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultStandarceGraphical LCD display visible in bright sullight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Area Classification		
Operating Temperature-40° to 167° Fahrenheit / -40° to 75° CelsiusHumidity5-95% RH (non condensing)Storage Temperature-67° to 167° Fahrenheit / -55° to 75° CelsiusTransmitter Specification2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Vire18-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption22 - 3.2 Watts based on sensor configurationAdd 2.6 Watts to any configuration if heated display is usedCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Communication ProtocelsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkMaximum 4-20 loop load Ohms (@24 VDC)3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultStandarceGraphical LCD display visible in bright sullight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	For income to be		
Humidity5-95% RH (non condensing)Storage Temperature-67° to 167° Fahrenheit / -55° to 75° CelsiusTransmitter Specification2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumptio2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedConsumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarma3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultFault4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsBisplayGraphical LCD display visible in brights unlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.		40° to 167° Extraphoit (40° to 75° Colours	
Storage Temperature-67° to 167° Fahrenheit / -55° to 75° CelsiusTransmitter Specification2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarems3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultFunctional Conduit LCD display visible in brights unlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Transmitter SpecificationPower2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedPower Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultCarel Relays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bight sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Power2 wire, 3 wire, 4 wireOperating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultLocal Conduit Consclass6raphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Operating Voltage 3/4 Wire10-30 VDC (24 VDC nominal)Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultAlarmsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.		2 wire 3 wire 1 wire	
Operating Voltage 2 Wire18-30 VDC (24 VDC nominal)Power Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultStandard: LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Power Consumption2.2 - 3.2 Watts based on sensor configuration Add 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultText Relays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsBisplay indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Power ConsumptionAdd 2.6 Watts to any configuration if heated display is usedAdd 2.6 Watts to any configuration if heated display is usedEnclosure MaterialCopper Free Aluminum 316 Stainless SteelStainless SteelEnclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultTent Relays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.			
Enclosure Material316 Stainless SteelIn Enclosure Ingress ProtectionNEMA 4X, IP66Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultIn Enclosure Relays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Power Consumption	C C	
Conduit Connections3/4" NPT (M20 thread adapter available)Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultMaximum 4-20 loop load Ohms (@24 VDC)67 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultMaximum 4-20 loop load Ohms (@24 VDC)67 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultMaximum 4-20 loop load Ohms (@24 VDC)67 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultFault, Alarm Status, Trend Graph at 30 VDC/240 VAC, resistive loads67 programmable alarms visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Enclosure Material		
Communication ProtocolsStandard: 4-20 mA, Modbus Optional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultRelays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Enclosure Ingress Protection	NEMA 4X, IP66	
Communication ProtocolsOptional: HART, Wireless HART, ISA100.11AMaximum 4-20 loop load Ohms (@24 VDC)840 Ohms non isolated current source 680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultRelays4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Conduit Connections	3/4" NPT (M20 thread adapter available)	
Maximum 4-20 loop load Ohms (@24 VDC)680 Ohms current sinkAlarms3 programmable alarms with set and reset (adjustable deadband); 1 fail safe system faultAlarms4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loadsGraphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Communication Protocols		
Alarms 1 fail safe system fault Relays 4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loads Graphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Maximum 4-20 loop load Ohms (@24 VDC)		
Graphical LCD display visible in bright sunlight; Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Display Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Alarms		
Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Display Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and guides user through the calibration process.	Relays	4 Form C relays, rated 5 Amp at 30 VDC/240 VAC, resistive loads	
Languages English, Portuguese, French, Spanish, Chinese, Russian	Display	Display indicates Sensor Name, Gas Name, Full Scale of Range, Gas Concentration, Fault, Alarm Status, Trend Graph WITH selectable time scale showing current reading, set points and full scale. Display provides simple, intuitive calibration instructions and	
	Languages	English, Portuguese, French, Spanish, Chinese, Russian	

User Configuration Control	Transmitter GUI, HART hand-held Communicator, Modbus
Access Control	Transmitter provides controlled access to sensor range, alarm settings and other safety functions; password protection for secure configuration control
Memory	Non-volatile memory ensures configuration parameters are retained in the event of power loss
Accessories	Rain shield/Deluge Guard, Flow Cell, Calibration Adapter, Duct Mount Kit, Sun Shield, Universal Mounting Adapter Plate
Flexible Design	Flexible design allows for ease of calibration without the need to remove instrument components
Weight	6.5 lbs/3 kg (Aluminum enclosure) 11 lbs/5 kg (Stainless Steel enclosure)
Wiring	Transmitter accept industry standard 2-wire, 3-wire, or 4-wire inputs
Flexible Mounting Option	Transmitter provides multiple conduit entry points for sensor, power, signal, and relay wiring
Mounting Flange Surface Area	6.50"x5.78" / 165mm x 147mm (Aluminum Enclosure) 7.00"x5.25" / 178mm x 133mm (Stainless Steel Enclosure) 4.72"x4.92" / 120mm x 125mm (Aluminum Junction Box Enclosure)
Mounting Bolt Holes	Diametrically opposed 5.85"; 0.315" / 149mm; 8mm holes (Aluminum Enclosure); Diametrically opposed 6.25"; 0.300" / 159mm; 8mm holes (Stainless Steel Enclosure); Diametrically opposed on 45° angle, 4.5"; 0.315" / 114mm; 8mm holes (Aluminum Junction Box)
Pipe Threads	3/4" NPT (M20 thread adapter available)
Sensor Specification	
Universal Detector Head	Detector head accepts all sensor types
Sensor Types	Combustible: Catalytic Bead, Infrared Electrochemical: Standard and Scott Rock Solid sensors Solid State: Metal Oxide Semiconductor (MOS)
Number of Sensors	Supports up to 3 sensors per transmitter
Sensor Replaceable Under Power	Sensors can be replaced under power without declassifying the area
Automatic Sensor Voltage Adjustment	Sensor voltage is automatically detected and adjusted by the transmitter during installation
Simple Plug & Play Sensor Install	Plug and play design allows for one hand sensor installation
Remote Calibration	Sensor can be bench calibrated and then installed in field without additional re-calibration on site; Available Duct Mount calibration kit makes it easy to perform calibration on remote transmitter installations that are difficult to access
User Selectable Range	Sensor offers multiple sensor ranges allowing user to select the specific range for their application requirements without the need to recalibrate the sensor
Range Invariant Calibration	Sensor range can be changed without recalibration
Sensor Refurbishment	Smart sensor electronics and snap fit housing makes it possible to refurbish sensor at the end of its useful life
Environment Friendly	Environment friendly sensor design allows for reuse of sensor electronics and housing with simple kernel replacement

SUPPORTED GASES

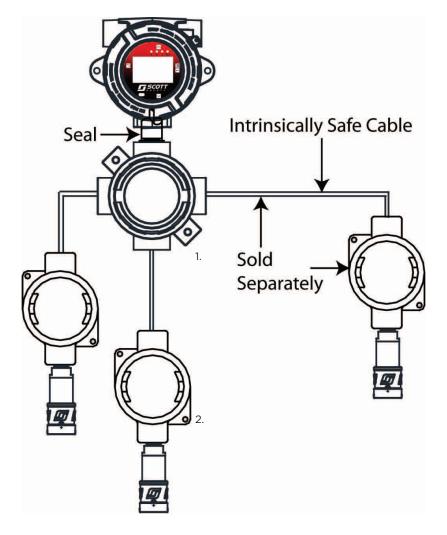
FULL RANGE OF COMBUSTIBLE AND TOXIC GASES

COMBUSTIBLE

Gas Type	Range
Acetone	0-100% LEL
Benzene	0-100% LEL
Butadiene	0-100% LEL
Butane	0-100% LEL
Ethane	0-100% LEL
Ethanol	0-100% LEL
Ethylene	0-100% LEL
Hexane	0-100% LEL
Hydrogen	0-100% LEL
Isobutanol	0-100% LEL
Isopropyl Alcohol	0-100% LEL
Methane	0-100% LEL
Methanol	0-100% LEL
Methyl Ethyl Ketone (MEK)	0-100% LEL
Pentane	0-100% LEL
Propane	0-100% LEL
Propylene	0-100% LEL
Toluene	0-100% LEL
Xylene	0-100% LEL

ΤΟΧΙΟ	
Gas Type	Range
Ammonia	50, 100, 250 300 500 ppm
Arsine	500, 1000 ppb
Boron Trichloride	10 ppm
Boron Trifluoride	5, 15 ppm
Bromine	1, 10 ppm
Carbon Dioxide	0-5% v/v
Carbon Monoxide	50, 100, 150, 500, 1000 ppm
Chlorine	1, 3, 5, 10, 20, 30 ppm
Chlorine Dioxide	1, 3, 5 ppm
Diborane	1 ppm, 5 ppm
Fluorine	1, 3, 5, 10, 25 ppm
Germane	1000 ppb
Hydrogen	1, 4% v/v
Hydrogen Bromide	1, 5, 10, 30 ppm
Hydrogen Chloride	1, 10, 25, 50, 100 ppm
Hydrogen Cyanide	10, 25, 100 ppm
Hydrogen Fluoride	1, 5, 10, 30, 100 ppm
Hydrogen Sulfide	10, 25, 50, 100, 200 ppm
Methanol	500 ppm
Methyl Mercaptan	3, 10 ppm
Methyl Iodide	25 ppm
Nitric Oxide	50 ppm
Nitrogen Dioxide	10, 20 ppm
Oxygen	10, 25% v/v
Ozone	1, 3 ppm
Phosphine	500, 1000 ppb
Silane	1 ppm, 10 ppm
Silicon Tetrafluoride	5 ppm
Sulfur Dioxide	1, 3, 10, 25, 50, 100, 500 ppm
TEOS	50 ppm
Tungsten Hexafluoride	1, 3 ppm

MULTI SENSOR CONFIGURATIONS MERIDIAN UNIVERSAL GAS DETECTOR



MERIDIAN UNIVERSAL GAS DETECTOR CAN SUPPORT UP TO 3 SENSORS

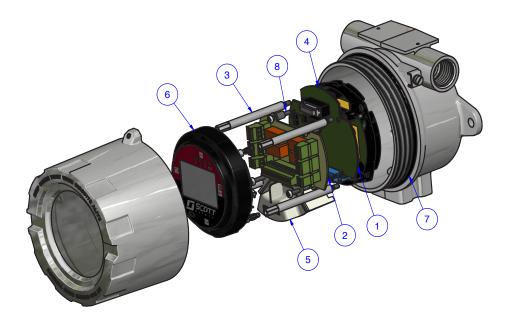
- 1. Junction box integral to transmitter (included with multiple sensor configuration)
- 2. Junction box for remote detector (sold separately)

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 *		
	O2 **	ECHEM *		
	O2 **	O2 **		
02	ECHEM *	ECHEM *		
(096-3473-19)	O2 **	ECHEM *		
	O2 **	O2 **		
COMBUSTIBLE	ECHEM *	ECHEM *		
CAT BEAD (096-3473-55)	O2 **	ECHEM *		
(090-3473-33)	O2 **	O2 **		
MOS	ECHEM *	ECHEM *		
(096-3473-57)	O2 **	ECHEM *		
	O2 **	O2 **		
IR - CO2 (096-3473-58)	N/A	N/A		
	O2 **	N/A		
	N/A	N/A		
COMBUSTIBLE	N/A	N/A		
IR (096-3473-56)	O2 **	N/A		
	N/A	N/A		
N/A : Not available in order to meet intrinsic safety requirements.				

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

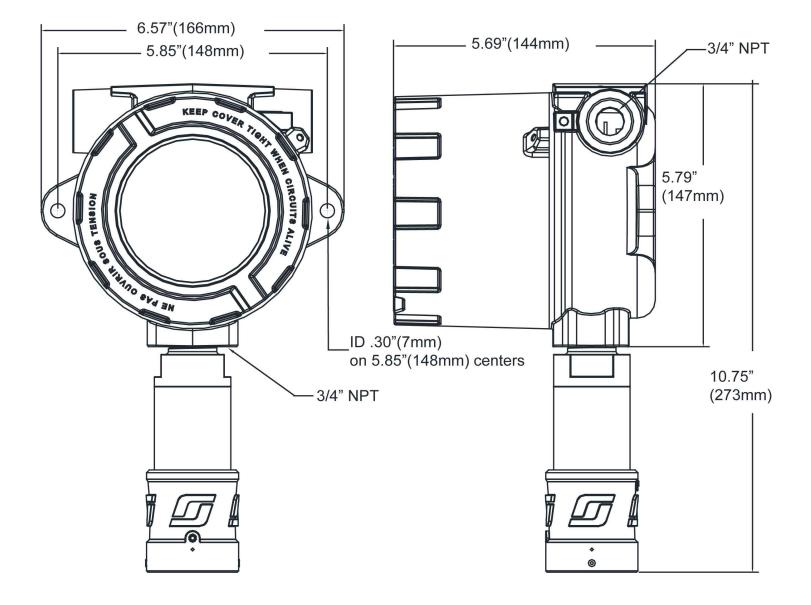
** OXYGEN SENSOR PART NUMBER 096-3473-19.

TECHNICAL DRAWINGS MERIDIAN TRANSMITTER ASSEMBLY



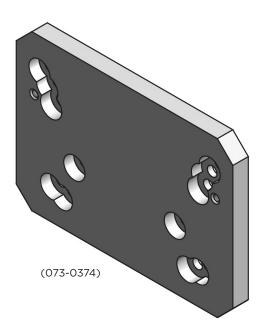
MERIDIAN TRANSMITTER ASSY.				
ITEM N ^o	QTY	PART N ^o	DESCRIPTION	
1	1	096-3401 096-3407	3-4 WIRE POWER SUPPLY PCB 2-WIRE POWER SUPPLY PCB	
2	1	096-3404	TERMINAL/RELAY MODBUS RS-485 PCB (STANDARD WITH 3-4 TRANSMITTER)	
3	4	007-0011	M4 X 85 STANDOFF	
4	1	096-3448 096-3449	3-4 WIRE I.S. BARRIER ASSY 2-WIRE I.S. BARRIER ASSY	
5	1	074-0528-01	TERMINAL BLOCK COVER	
6	1	096-3447-01 096-3447-02 096-3447-03		
7	1	009-0056	HOUSING O-RING	
8	4	076-0221	6-32 x 3/4 PHILLIPS PAN HEAD	

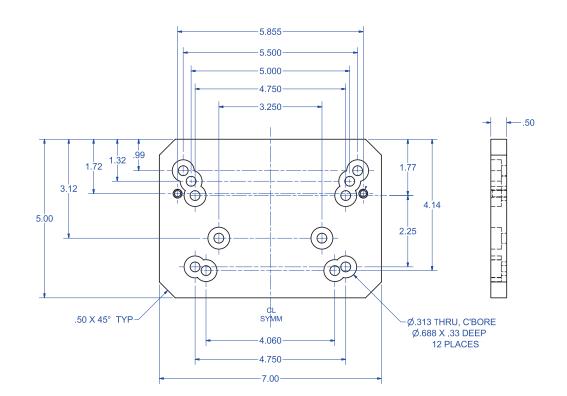
TECHNICAL DRAWINGS WALL MOUNTING OPTION



TECHNICAL DRAWINGS WALL MOUNTING OPTION

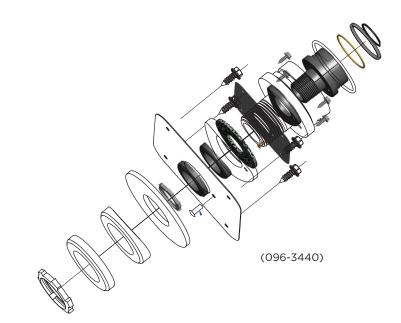
UNIVERSAL MOUNTING ADAPTER PLATE

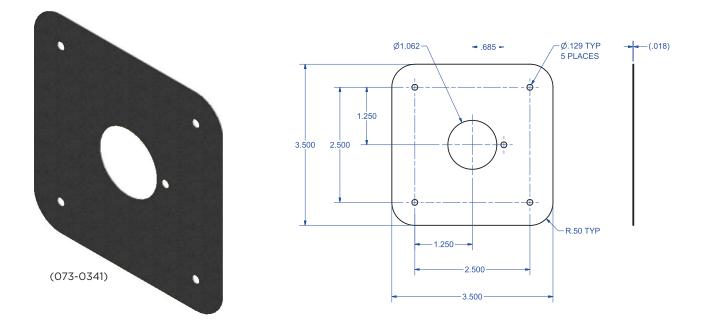




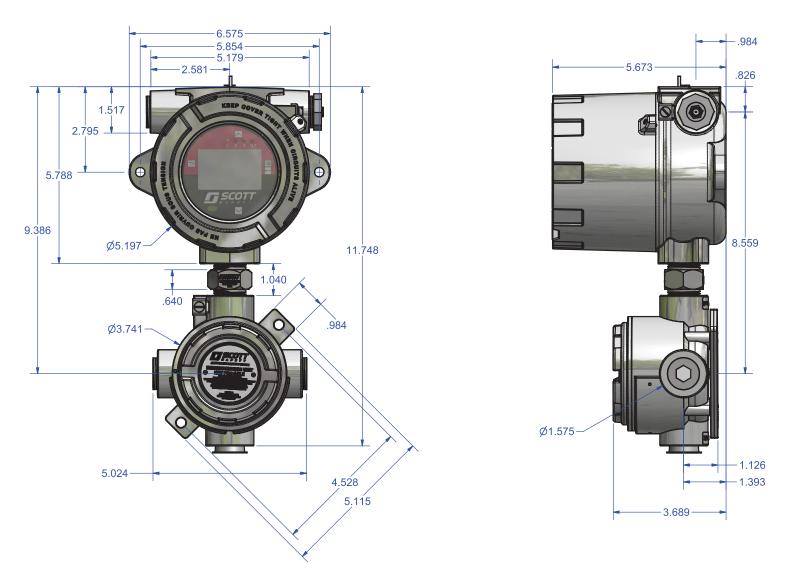
TECHNICAL DRAWINGS DUCT MOUNTING OPTION

DUCT MOUNT ADAPTER KIT

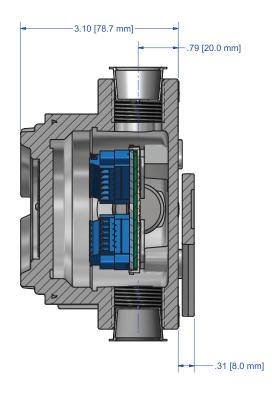


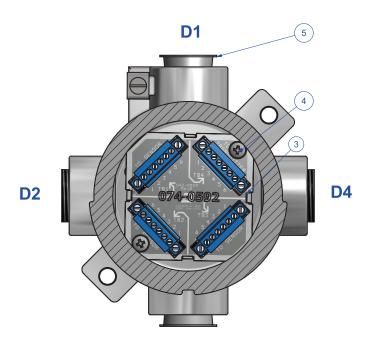


TECHNICAL DRAWINGS TRANSMITTER AND JUNCTION BOX ASSEMBLY



TECHNICAL DRAWINGS





ACCESSORIES MERIDIAN UNIVERSAL GAS DETECTOR



CALIBRATION ADAPTER SKU: 096-3438



FLOW CELL ADAPTER SKU: 096-3439



DUCT MOUNT ADAPTER SKU: 096-3440



DELUGE GUARD SKU: 096-3441



JUNCTION BOX SKU: 096-3475



SUNSHIELD SKU: 073-0373



UNIVERSAL ADAPTER PLATE SKU: 073-0374



STAINLESS STEEL END CAP SKU: 096-3437-2



NPT/ NPT GLAND FITTING SKU: 096-3483



SENSOR SIMULATOR SKU: 096-3395

NOTES MERIDIAN UNIVERSAL GAS DETECTOR



At Scott, we've been developing ways to protect people since 1932. Our founder, Earl Scott, began the company by tinkering with inventions in his basement in Lancaster, NY. Since that time, the Scott name has stood for unquestioned quality when safety is critical. Facilities across hundreds of industries rely on Scott's attention to detail, fail-safe measures, attentive service and constant innovation. The Meridian universal gas detector is another offering in our long, proud history of safety equipment.

© 2013 Scott Safety. SCOTT, the SCOTT SAFETY Logo, Scott Health and Safety, Meridian Universal Gas Detector, and Rock Solid are registered and/or unregistered marks of Scott Technologies, Inc. or its affiliates.

Monroe Corporate Center • P.O. Box 569 • Monroe, NC 28111 Telephone: 800.247.7257 • Facsimile: 704.291.8330 www.scottsafety.com • sh-sale@tycoint.com

