

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Scott / Bacharach Series 4600 Gas PLUS* at our website: *Click HERE*

Specifications

All specifcations shown apply to both Series 4600 and Series 4600MB unless otherwise noted.

Enclosure — *Transmitter:* Copper-free cast aluminum.
Sensor housing: Stainless steel with PVC end-cap

Temperature Range — *Transmitter:* -40°F to 140°F (-40°C to 60°C)
Sensor: Depends on gas type. See Gas Capabilities Data Sheet

Operating Humidity Range — Up to 99%RH, non-condensing (up to 100%RH with optional humishield)

Operating Pressure Range — 0-10psig

Weight — 5lbs (2.25Kg)

Power Requirements — *(4600 2 wire):* 14-30 Vdc 0.6W
(4600MB 3 wire): 18-27 Vdc 1.2 W
(4600MB w/ relays): 18-27 VDC 2.0W

Output — *Analog:* 4-20mA
(*4600MB*) RS-485/232 Modbus RTU
(4600MB w/Relay): 2 alarm, 1 fail (all 5A SPST rated at 120V); user-selectable latching/non-latching and energized/de-energized

Maximum Loop Load — *(4600 2 wire):*460 ohm at 24VDC
*(4600MB w/relays):*950ohm at 24VDC

Display — 3.5 digit LCD; 0-100% bargraph; alarm indication; inhibit indication; weak sensor indication.

Local Inhibit Output — Selectable
(4600): 3.5 to 20.0 mA
(4600MB): 0-20 mA

Self-diagnostics — Weak sensor; Missing sensor; transmitter fault

Max. Sensor Separation — 50 feet (15.25m) from transmitter

Sensor Type — Electrochemical gas diffusion

Sensor Life — 22-24 months average; disposable

Sensor Battery — 9 months continuously unpowered (no drain when powered)

Sensor Repeatability — ±2% full scale

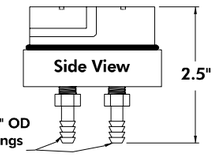
Sensor linearity — ±2% full scale

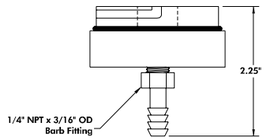
Approvals — *(4600):* ETL & UL/C-UL Class I, Division 1, Groups B, C, D
*(4600MB):*CSA Class 1/Div 1 / Groups B,C,&D
For Nema-7 x-proof housing w/ intrinsically safe sensor connection

Warranty — 1 year (sensor and transmitter)
Except Phosgene ($COCl_2$) sensor - 6 months

1/4 Turn Accessories

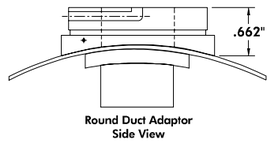
FlowCell
P/N # 096-2102



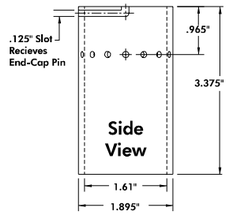


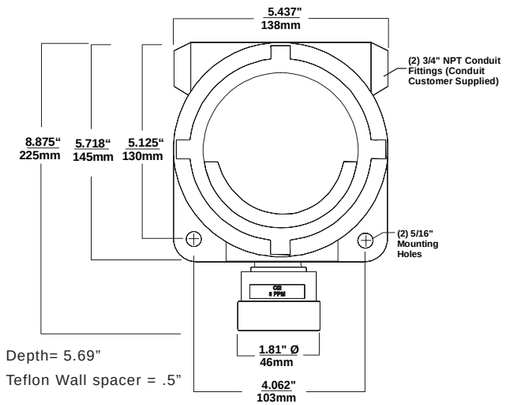
Calibration Adaptor
P/N # 096-2101

Duct Mount Adaptor
Order Part
096-2118-6/8 (curved)
or
096-2118-F (flat)



RainShield Splash Guard
P/N # 074-0305





DS-4600 3-03 CN-4

tyco SCOTT INSTRUMENTS

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(WEB) www.scottinstruments.com

Represented by:

251 Welsh Pool Rd. ,Exton PA 19341

GasPlus™

Series 4600 & 4600MB Universal Gas Transmitter

SCOTT INSTRUMENTS
www.ScottGasPlus.com



The Series 4600 Gas^{PLUS} is a toxic gas and oxygen transmitter designed for single and multi-point monitoring applications where ruggedness, flexibility, and ease of maintenance are critical. The basic Series 4600 transmitter is a two-wire device providing a 4-20 mA output. For additional output flexibility, Series 4600 MB transmitters offer RS-485/232 MODBUS® RTU output and relay contacts in a multi-wire configuration.

Advanced Gas Sensors and Universal Electronics

Gas^{PLUS} 's advanced sensor technology combines with its universal transmitter electronics to help users streamline the transmitter's operation and maintenance requirements. Every "smart" sensor provides data such as gas type, range, and calibration data to the universal electronics for automatic transmitter configuration. A built-in lithium battery keeps the sensor "hot," which eliminates the need for warm-up time and enables users to maintain and calibrate the sensor remote from the instrument. A patented elastomeric connector eliminates pin alignments and makes sensor replacement quick and easy.

The Gas^{PLUS} includes a built-in intrinsically-safe barrier so the sensor can be removed without declassifying the area. The sensor connects to the transmitter with an elastomeric pad, rather than pins or plugs. This patented design makes sensor replacement quick and easy — even with gloves on.

Multiple self-diagnostics add reliability and security. The sensor end-of-life indicator provides a warning when sensor lifetime is nearing its end. The missing sensor indicator drives instrument output to a fault level if the electrical connection between the sensor and transmitter is broken. Other diagnostics continuously check electronics and software

Operation of the instrument is simple and intuitive and does not require a costly infrared tool. A magnet is simply touched to the front panel for non-intrusive operation and calibration. The local output inhibit (with adjustable output signal) permits true one-man calibration.

Features

Easy-To-Maintain & Operate

- *Local display*
- *Non-intrusive calibration*
- *No sensor warm-up time*
- *Remote sensor maintenance*
- *Universal transmitter*
- *Sensor removal without the need to declassify the area*
- *Patented no-pins sensor connection*

Self Diagnostics

- Sensor end-of-life indicator
- Missing sensor indicator

Rugged Design

- Conformally-coated electronics
- Horizontal conduit entries

4600MB Additional Features

- Optional built-in alarm relays
- RS-485/232 MODBUS® RTU output
- Security lockout

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Safer Through Science.



4600MB - MODBUS® for Optimum Operational Flexibility

The 4600MB offers additional output flexibility and features in a multi-wire configuration. The 4600MB provides, as standard, 4-20mA analog output as well as digital output via RS-485/232 wiring configuration utilizing the MODBUS RTU protocol.

As an option, the 4600MB can be equipped with three on-board relays providing two concentration and one fail relay contacts. These 5A SPST relays come with a programmable time delay to reduce nuisance activations. The programmable relay includes configurable alarm setpoints, time delay on/off, latching/non-latching mode, energized/de-energized mode, alarm reset, and rising/falling relay activation. All parameters are adjusted non-intrusively.

We Make Sensors that Make a Difference.

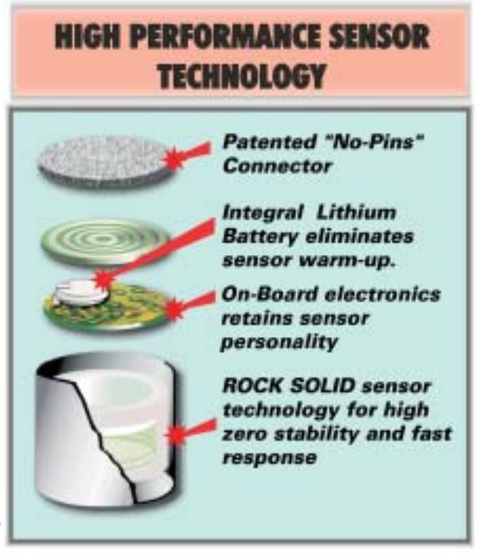
Unlike most gas detection companies, Scott Instruments develops and manufactures the gas sensors used in its detection instruments. Our team of research and development scientists work everyday to advance sensor technologies and improve manufacturing techniques. The result - over 40 reliable, stable, and gas specific sensors including our Rock Solid® series of high performance sensors.



ROCK SOLID® Sensors

ROCK SOLID® sensors use proprietary technology that significantly enhances sensor performance. ROCK SOLID® sensors can detect gas concentrations lower than any other electrochemical gas sensor. ROCK SOLID® sensors provide:

- ***highest stabilty***
- ***lowest zero drift***
- ***greatest sensitivity***
- ***fastest speed of response and recovery time***
- ***greatest specificity to the target gas.***



Sensor Self Test

Any electrochemical sensor can potentially fail without warning.The Sensor Self Test (SST) option reduces overall maintenance costs by providing users with a means to conduct an automatic functional test of the sensor. A built-in, programmable gas generator exposes the sensor to a "test gas" at user determined intervals and alerts personnel if the unit fails to respond. *Only available on some models.*

Ordering Information

Model 46AA - BB- C- D - E

AA- Gas

BLUE color prefix indicates that a Low %RH version is available. Low % RH sensors are typically used in semiconductor, HVAC controlled, and desert environments.

***Bold* = standard range**

00 No sensor w/ standard endcap
01 No sensor w/ Rock Solid endcap
85 • Ammonia (NH_3) (0-50,**100**,150,250,500)PPM
37 • Arsine (AsH3) Rock ***Solid*** (0-**500 PPB**,3, 10 PPM)
65 • Arsine (AsH_3) (0-**1000 PPB, 3, 10** PPM)
27 • Boron Trichloride (BCl_3) ***Rock Solid*** (0-1, 3, **5** PPM)
29 • Boron Trifluoride (BF_3) ***Rock Solid*** (0-**1**, 3, 5 PPM)
99 • Bromine (Br_2) ***Rock Solid*** (0-**1**,3,5,10,15,25,30) PPM
61 • Bromine (Br_2) (0-**1**,3,5,10,15,25,30,50,100) PPM
82 • Carbon Monoxide (0-50, **100**,150,200,250,300,500,1000) PPM
24 • Chlorine (Cl_2) ***Rock Solid*** (0-1,3,**5**,10,15,25,30) PPM
52 • Chlorine (Cl_2) (0-1,3,**5**,10,15,25,30,50,100,200) PPM
78 • Chlorine Dioxide ***Rock Solid*** (0-**1**,3,5,10,15) PPM
53 • Chlorine Dioxide (ClO_2) (0-**1**,3,5,10,15,25,30,50,100) PPM
n/a • Dichlorosilane (SiH_2Cl_2) - ***Order ROCK SOLID HCl sensor***
18 • Fluorine (F_2) ***Rock Solid*** (0-**1**,3,5,10,15,20,30) PPM
62 • Fluorine (F_2) (0-**1**,3,5,10,15,25,30,50,100) PPM
51 • Hydrogen (H_2) (0-1%,**4%**,5%,10%)
95 • Hydrogen Bromide ***Rock Solid*** (0-1,3,**5**,10,15,20,25,30) PPM
93 • Hydrogen Chloride ***Rock Solid*** (0-1,3,5,10,15,2,0,**25**,30) PPM
71 • Hydrogen Chloride (HCl) (0-10,**25**,50,100) PPM
19 • Hydrogen Cyanide (HCN) ***Rock Solid*** (0-1,**2**,3,5,10) PPM
64 • Hydrogen Cyanide (HCN) (0-10,**25**,30,50,100) PPM
91 • Hydrogen Fluoride (HF) ***Rock Solid*** (0-1,3,5,**10**,15,25,30) PPM
70 • Hydrogen Fluoride (HF) (0-**10**,15,25,50,100) PPM
81 • Hydrogen Sulfide (H_2S) (0-10,25,**50**,100,200) PPM
59 • Methanol (CH_3OH) (0-**500**) PPM
45 • Methyl Mercaptan (0-5 PPM w/H2S filter)
46 • Methyl Mercaptan (0-3 ppm w/o filter)
44 • Methyl Iodide (CH_3I) (0-**25**) PPM
34(P) • Methylene Chloride (CH_2Cl_2) (0-**200**) PPM
86 • Nitric Oxide (NO) (0-25,50,100,500) PPM
84 • Nitrogen Dioxide (NO_2) (0-10,25,50,100,250) PPM
80 • Oxygen (O_2) (0-10%,**25%**)
60 • Ozone (O_3) (0-**1**,2,3,5,10,15,25,30,50,100) PPM
77 • Ozone ***Rock Solid*** (O_3) (0-**1**, 3, 5, 10, 15, 20, 25, 30 ppm
49 • Phosgene (0-1 ppm)
50 • Phosgene w/ HCN filter (0-2 ppm)
39 • Phosphine (PH_3) ***Rock Solid*** (0-**500 PPB** 1, 3, 5 PPM)
66 • Phosphine (PH_3) (0-**1000 PPB**,3,10 PPM)
32 • Silicon Tetrafluoride (SiF_4) ***Rock Solid*** (0-1, **3**, 5 PPM)
97 • Sulfur Dioxide (SO_2) ***Rock Solid*** (0-1,3,5,**10**,15,25,50,30) PPM
83 • Sulfur Dioxide (SO_2) (0-**10**,15,25,50,100,500) PPM
25 • Tungsten Hexafluoride (WF_6) ***Rock Solid*** (0-**1**, 3, 5 PPM)

BB- Ranges Selection

[05]	0-1 PPM	**[35]**	0-20 PPM	**[65]**	0-200 PPM	**[1B]**	0-1000 PPB
[10]	0-2 PPM	**[40]**	0-25 PPM	**[70]**	0-250 PPM	**[1C]**	0-1%
[15]	0-3 PPM	**[45]**	0-30 PPM	**[75]**	0-300 PPM	**[1D]**	0-4%
[20]	0-5 PPM	**[50]**	0-50 PPM	**[80]**	0-500 PPM	**[1E]**	0-5%
[25]	0-10 PPM	**[55]**	0-100 PPM	**[85]**	0-1000 PPM	**[1F]**	0-10%
[30]	0-15 PPM	**[60]**	0-150 PPM	**[1A]**	0-500 PPB	**[1G]**	0-25%

C - Sensor Connection / Housing

1 - Integral Sensor with transmitter
2 - Separated Sensor w/ junction box and 50' cable
3 - Separated Sensor, no J-box 6' cable standard (not appproved for hazardous locations)
4 - Condensing %RH Sensor housing, no window/includes Humishield End Cap
5- 3/4" housing and and condensing humidity endcap (not appproved for hazardous locations)

D - Transmitter Output

Series 4600
1 - Standard (4-20 mAdc)
Series 4600MB
4 - 4600MB (RS-485,4-20mA) without Relays (qty3)
5 - 4600MB (RS-485,4-20mA) Local Relays N.O. (Low,High, Fault)
6 - 4600MB (RS-485,4-20mA) Local Relays N.C. (Low,High, Fault)
7- SST No Relays. [For ROCK SOLID Sensors Only]
8- SST Local Relays N.O. (3) [For ROCK SOLID Sensors Only]
9- SST Local Relays N.C. (3) [For ROCK SOLID Sensors Only]

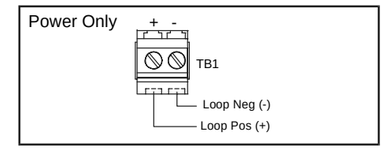
E - Adaptors

1 - No Adaptors
2 - 1/4 Turn Rainshield/Splash Guard (typical)
3 - S.S.Rainshield/Cal Adaptor w/ SS End Cap (for REMOTE sensor apps)
4 -1/4 Flowcell

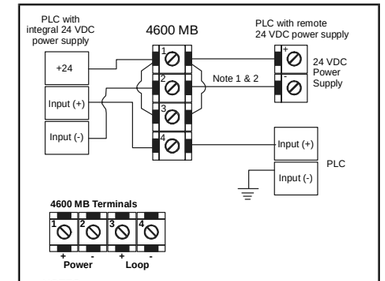
F - Sensor Self Test

1- No SST
2- SST Type A (4600MB ONLY) [only available in some models - call for info]

4600 Electrical Connections

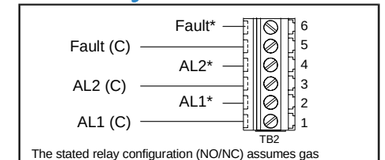


4600-MB Electrical Connections



NOTES:
1- Power supply common (c) is connected to earth ground within the transmitter.
2- The 4600MB 24 VDC negative/common is referenced to earth ground in order to maintain the internal sensor I.S. Barrier certification.

Alarm Relay Connections



The stated relay configuration (NO/NC) assumes gas concentration relays to be field programmed as Non-FAILSAFE. Programming for failsafe reverses the NO/NC operation.

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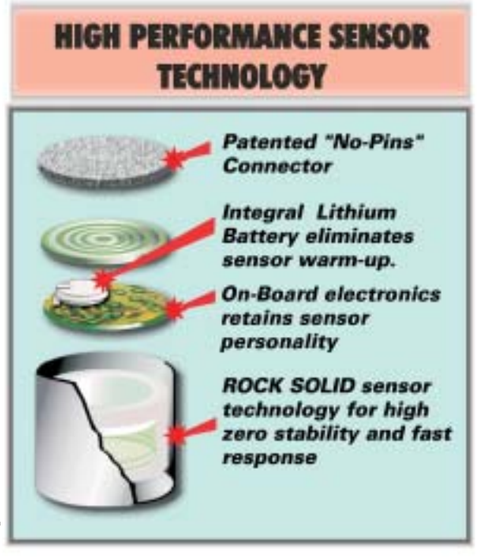
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Ordering Information

Model 46AA - BB- C- D - E

AA- Gas

BLUE color prefix indicates that a Low %RH version is available. Low % RH sensors are typically used in semiconductor, HVAC controlled, and desert environments.

***Bold* = standard range**

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[15]	0-3 PPM	**[45]**	0-30 PPM	**[75]**	0-300 PPM	**[1D]**	0-4%
[20]	0-5 PPM	**[50]**	0-50 PPM	**[80]**	0-500 PPM	**[1E]**	0-5%
[25]	0-10 PPM	**[55]**	0-100 PPM	**[85]**	0-1000 PPM	**[1F]**	0-10%
[30]	0-15 PPM	**[60]**	0-150 PPM	**[1A]**	0-500 PPB	**[1G]**	0-25%

C - Sensor Connection / Housing

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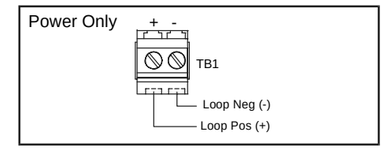
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3 - S.S.Rainshield/Cal Adaptor w/ SS End Cap (for REMOTE sensor apps)
4 -1/4 Flowcell

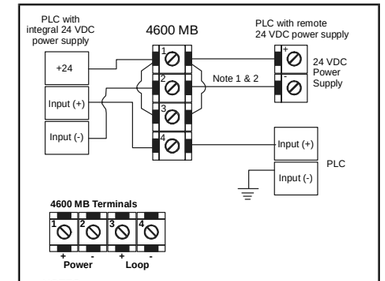
F - Sensor Self Test

1- No SST
2- SST Type A (4600MB ONLY) [only available in some models - call for info]

4600 Electrical Connections

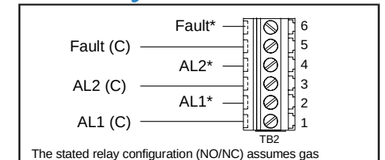


4600-MB Electrical Connections



NOTES:
1- Power supply common (c) is connected to earth ground within the transmitter.
2- The 4600MB 24 VDC negative/common is referenced to earth ground in order to maintain the internal sensor I.S. Barrier certification.

Alarm Relay Connections



The stated relay configuration (NO/NC) assumes gas concentration relays to be field programmed as Non-FAILSAFE. Programming for failsafe reverses the NO/NC operation.

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Specifications

All specifcations shown apply to both Series 4600 and Series 4600MB unless otherwise noted.

Enclosure — *Transmitter:* Copper-free cast aluminum.
Sensor housing: Stainless steel with PVC end-cap

Temperature Range — *Transmitter:* -40°F to 140°F (-40°C to 60°C)
Sensor: Depends on gas type. See Gas Capabilities Data Sheet

Operating Humidity Range — Up to 99%RH, non-condensing (up to 100%RH with optional humishield)

Operating Pressure Range — 0-10psig

Weight — 5lbs (2.25Kg)

Power Requirements — *(4600 2 wire):* 14-30 Vdc 0.6W
(4600MB 3 wire): 18-27 Vdc 1.2 W
(4600MB w/ relays): 18-27 VDC 2.0W

Output — *Analog:* 4-20mA
(*4600MB*) RS-485/232 Modbus RTU
(4600MB w/Relay): 2 alarm, 1 fail (all 5A SPST rated at 120V); user-selectable latching/non-latching and energized/de-energized

Maximum Loop Load — *(4600 2 wire):*460 ohm at 24VDC
*(4600MB w/relays):*950ohm at 24VDC

Display — 3.5 digit LCD; 0-100% bargraph; alarm indication; inhibit indication; weak sensor indication.

Local Inhibit Output — Selectable
(4600): 3.5 to 20.0 mA
(4600MB): 0-20 mA

Self-diagnostics — Weak sensor; Missing sensor; transmitter fault

Max. Sensor Separation — 50 feet (15.25m) from transmitter

Sensor Type — Electrochemical gas diffusion

Sensor Life — 22-24 months average; disposable

Sensor Battery — 9 months continuously unpowered (no drain when powered)

Sensor Repeatability — ±2% full scale

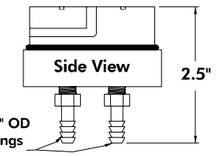
Sensor linearity — ±2% full scale

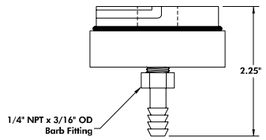
Approvals — *(4600):* ETL & UL/C-UL Class I, Division 1, Groups B, C, D
*(4600MB):*CSA Class 1/Div 1 / Groups B,C,&D
For Nema-7 x-proof housing w/ intrinsically safe sensor connection

Warranty — 1 year (sensor and transmitter)
Except Phosgene ($COCl_2$) sensor - 6 months

1/4 Turn Accessories

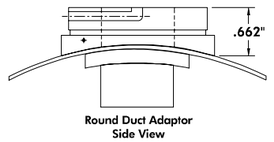
FlowCell
P/N # 096-2102



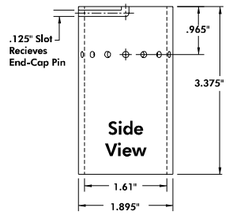


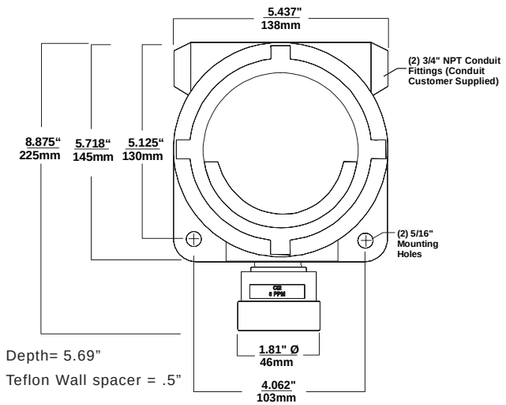
Calibration Adaptor
P/N # 096-2101

Duct Mount Adaptor
Order Part
096-2118-6/8 (curved)
or
096-2118-F (flat)



RainShield Splash Guard
P/N # 074-0305





DS-4600 3-03 CN-4

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GasPlus™

Series 4600 & 4600MB Universal Gas Transmitter

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www.ScottGasPlus.com



The Series 4600 Gas^{PLUS} is a toxic gas and oxygen transmitter designed for single and multi-point monitoring applications where ruggedness, flexibility, and ease of maintenance are critical. The basic Series 4600 transmitter is a two-wire device providing a 4-20 mA output. For additional output flexibility, Series 4600 MB transmitters offer RS-485/232 MODBUS® RTU output and relay contacts in a multi-wire configuration.

Advanced Gas Sensors and Universal Electronics

Gas^{PLUS} 's advanced sensor technology combines with its universal transmitter electronics to help users streamline the transmitter's operation and maintenance requirements. Every "smart" sensor provides data such as gas type, range, and calibration data to the universal electronics for automatic transmitter configuration. A built-in lithium battery keeps the sensor "hot," which eliminates the need for warm-up time and enables users to maintain and calibrate the sensor remote from the instrument. A patented elastomeric connector eliminates pin alignments and makes sensor replacement quick and easy.

The Gas^{PLUS} includes a built-in intrinsically-safe barrier so the sensor can be removed without declassifying the area. The sensor connects to the transmitter with an elastomeric pad, rather than pins or plugs. This patented design makes sensor replacement quick and easy — even with gloves on.

Multiple self-diagnostics add reliability and security. The sensor end-of-life indicator provides a warning when sensor lifetime is nearing its end. The missing sensor indicator drives instrument output to a fault level if the electrical connection between the sensor and transmitter is broken. Other diagnostics continuously check electronics and software

Operation of the instrument is simple and intuitive and does not require a costly infrared tool. A magnet is simply touched to the front panel for non-intrusive operation and calibration. The local output inhibit (with adjustable output signal) permits true one-man calibration.

Features

Easy-To-Maintain & Operate

- *Local display*
- *Non-intrusive calibration*
- *No sensor warm-up time*
- *Remote sensor maintenance*
- *Universal transmitter*
- *Sensor removal without the need to declassify the area*
- *Patented no-pins sensor connection*

Self Diagnostics

- Sensor end-of-life indicator
- Missing sensor indicator

Rugged Design

- Conformally-coated electronics
- Horizontal conduit entries

4600MB Additional Features

- Optional built-in alarm relays
- RS-485/232 MODBUS® RTU output
- Security lockout

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