



Certificate of Compliance

Certificate: 1441321 (LR 81532)

Master Contract: 159007

Project: 2624283

Date Issued: June 25, 2013

Issued to: Industrial Scientific Corporation

1001 Oakdale Rd
Oakdale, PA 15071-1500
USA
Attention: Rick Chalmers

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Glenn Black

Issued by: Glenn Black

PRODUCTS

CLASS 4828 01 - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments-For Hazardous Locations

CLASS 4828 81 - SIGNAL APPLIANCES-Combustible Gas Detection Instruments - For Hazardous Location-Certified to U.S. Standards

CLASS 4828 82 - SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations. Certified to U.S. Standards

CLASS 4828 02 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations

CLASS 4828 01

Class I, Div. 1, Groups B, C and D:

Ex d IIB +H2 T5

-iTRANS Gas Monitor P/N 7814635 for use with one or two of the following sensors: Model 7701-5857 Fixed IR (Class I, Div. 1, Groups B, C and D and Class I, Div. 2, Groups B, C and D), P/N 7702-2606 or 7702-6987 Combustible, P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen or P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with P/N 7702-5930 or 7702-6920 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/



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N 7814635 and Remote Enclosures P/N 7702-5930 and 7702-6920 are rated Type 4X and IP66. Ambient for Model 7701-5857 Fixed IR sensor is -20C to +55C. Ambient for all other devices is -40C to +75C.

iTRANS 2 Gas Monitor P/N 78105049 for use with one or two of the following sensors: P/N 7702-2606 or 7702-6987 Combustible, P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7703-6320 or 7703-6321 or 7703-6322 or 7703-6332 or 7703-6333 or 7703-6334 Carbon Dioxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen, P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with 7703-6306 or 7703-6308 Remote Enclosure. Input 12-28V dc, 600 mA max; output 4-20 mA; relay contacts rated 30V dc or 30V ac, 5 A max. Gas Monitor P/N 78105049 and Remote Enclosures 7703-6306 or 7703-6308 are rated Type 4X and IP66. Ambient -40C to +75C.

CLASS 4828 81

Class I, Div. 1, Groups B, C and D:

AEx d IIB +H2 T5

-iTRANS Gas Monitor P/N 7814635 for use with one or two of the following sensors: Model 7701-5857 Fixed IR (Class I, Div. 1, Groups B, C and D and Class I, Div. 2, Groups B, C and D), P/N 7702-2606 or 7702-6987 Combustible, P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen or P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with P/N 7702-5930 or 7702-6920 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/N 7814635 and Remote Enclosures P/N 7702-5930 and 7702-6920 are rated Type 4X. Ambient for Model 7701-5857 Fixed IR sensor is -20C to +55C. Ambient for all other devices is -40C to +75C.

iTRANS 2 Gas Monitor P/N 78105049 for use with one or two of the following sensors: P/N 7702-2606 or 7702-6987 Combustible, P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7703-6320 or 7703-6321 or 7703-6322 or 7703-6332 or 7703-6333 or 7703-6334 Carbon Dioxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen, P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with 7703-6306 or 7703-6308 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/N 78105049 and Remote Enclosures 7703-6306 or 7703-6308 are rated Type 4X. Ambient -40C to +75C.

CLASS 4828 02



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iTRANS 2 Gas Monitor P/N 78105049 for use with one or two of the following sensors P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7703-6320 or 7703-6321 or 7703-6322 or 7703-6332 or 7703-6333 or 7703-6334 Carbon Dioxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen, P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with Model 7703-6306 or 7703-6308 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/N 78105049 and Remote Enclosures P/N 7703-6306 and 7703-6308 are rated Type 4X. Ambient -40C to +75C.

CLASS 4828 82

Class I, Div. 1, Groups B, C and D:

AEx d IIB +H2 T5

-iTRANS Gas Monitor P/N 7814635 for use with one or two of the following sensors P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen, P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with Model 7702-5930 or 7702-6920 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/N 7814635 and Remote Enclosures P/N 7702-5930 and 7702-6920 are rated Type 4X. Ambient -40C to +75C.

iTRANS 2 Gas Monitor P/N 78105049 for use with one or two of the following sensors P/N 7702-3828 or 7702-6961 Hydrogen Sulphide, P/N 7702-3836 or 7702-7167 Carbon Monoxide, P/N 7703-6320 or 7703-6321 or 7703-6322 or 7703-6332 or 7703-6333 or 7703-6334 Carbon Dioxide, P/N 7702-3927 or 7702-6979 Oxygen, P/N 7702-3935 or 7702-7175 Hydrogen, P/N 7702-5286 or 7702-7191 Toxic (Class I, Division 2 Groups A, B, C and D only), P/N 7702-6094 or 7702-7183 Toxic. Sensor may be integral or remote when used with Model 7703-6306 or 7703-6308 Remote Enclosure. Input 12-28 Vdc, 600 mA max; output 4-20 mA; relay



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contacts rated 30 Vdc or 30 Vac, 5 A max. Gas Monitor P/N 78105049 and Remote Enclosures P/N 7703-6306 and 7703-6308 are rated Type 4X. Ambient -40C to +75C.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 0-M91 (R 2006) - General Requirements-Canadian Electrical Code, Part II
- CSA C22.2 No. 30-M1986 (R 2003) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations
- CAN/CSA C22.2 No. 94-M91 (R 2006) - Special Purpose Enclosures
- CSA C22.2 No. 142-M1987 (R 2004) - Process Control Equipment
- CSA C22.2 No. 152-M1984 (R 2006) - Combustible Gas Detection Instruments
- CSA C22.2 No. 213-M1987 (R 2004) - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CAN/CSA-E60079-0:02 - Electrical apparatus for explosive gas atmospheres – Part 0: General Requirements
- CAN/CSA-E60079-1:02 - Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures “d”
- CAN/CSA-E60529:05 - Degrees of protection provided by enclosures (IP Code)
- UL No. 50, Eleventh Edition - Enclosures for Electrical Equipment
- UL No. 916, Third Edition - Energy Management Equipment
- UL No. 1203, Fourth Edition - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
- UL No. 1604, Third edition - Division 2 Hazardous Location Electrical Equipment
- ANSI/ISA 12.13.01-2000 - Performance Requirements for Combustible Gas Detectors
- ANSI/UL 60079-0:02 - Electrical apparatus for explosive gas atmospheres – Part 0: General Requirements
- ANSI/UL 60079-1:02 - Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures “d”

MARKINGS



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iTRANS and iTrans 2 Gas Monitor:

- Submittor identification;
- Model number;
- Electrical rating;
- Hazardous locations designation;
- Caution re keep cover tight while circuits are alive;
- CSA Monogram with C/US indicator;
- Serial number;
- Warning re verify hazardous location and IP rating of sensor
- Warning re use wire rated $\geq 90C$ for ambients $\geq 55C$
- The statement "C22.2 No.152 (for % LEL readings only)"
- Enclosure rating Type 4X and IP66

Ambient temperature

Sensor Modules iTrans:

- Submittor identification;
- Model number;
- Hazardous locations designation;
- Caution re keep cover tight while circuits are alive;
- CSA Monogram with C/US indicator;
- Serial number;
- Statement re approved for use with 7701-8430, 7810-3355, 7810-3363, 7810-4007, 7810-4015, 7814635 and 7702-5930 (Model 7701-5857 only).
- Statement re approved for use with 7814635 and 7702-5930 (P/N's 7702-2606, 7702-3828, 7702-3836, 7702-3927, 7702-3935, 7702-5286 and 7702-6094 only).



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-Statement re approved for use with 7814635 and 7702-6920 (P/N's 7702-6987, 7702-6961, 7702-7167, 7702-6971, 7702-7175, 7702-7191 and 7702-7183 only).

-The statement "C22.2 No.152"(Model 7701-5857, P/N 7702-2606 and 7702-6987 only).

- Ambient temperature

Remote Enclosure iTrans:

- Submittor identification;

- Model number;

- Hazardous locations designation;

- Caution re keep cover tight while circuits are alive;

- CSA Monogram with C/US indicator;

- Serial number;

-Warning re verify hazardous location and IP rating of sensor

- Statement re approved for use with 7814635, 7702-2606, 7702-3927, 7702-6094, 7702-3828, 7702-3836, 7702-3935, 7702-5286 and 7701-5857 (7702-5930 only).

- Statement re approved for use with 7814635, 7702-6987, 7702-6961, 7702-6979, 7702-7167, 7702-7175, 7702-7183 and 7702-7191 (7702-6920 only).

- Enclosure rating Type 4X and IP66

- Ambient temperature

Sensor Modules iTrans 2:

- Submittor identification;

- Model number;

- Hazardous locations designation;

- Caution re keep cover tight while circuits are alive;

- CSA Monogram with C/US indicator;

- Serial number;



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-Statement re approved for use with 78105049 and 7703-6306 (P/N's 7702-2606, 7702-3828, 7702-3836, 7702-3927, 7702-3935, 7702-5286, 7702-6094, 7703-6320, 7703-6321 and 7703-6322 only).

-Statement re approved for use with 78105049 and 7703-6308 (P/N's 7702-6987, 7702-6961, 7702-7167, 7702-6979, 7702-7175, 7702-7191, 7702-7183, 7703-6332, 7703-6333 and 770-6334 only).

-The statement "C22.2 No.152"(Model P/N 7702-2606 and 7702-6987 only).

- Ambient temperature

Remote Enclosure iTrans 2:

- Submittor identification;

- Model number;

- Hazardous locations designation;

- Caution re keep cover tight while circuits are alive;

- CSA Monogram with C/US indicator;

- Serial number;

-Warning re verify hazardous location and IP rating of sensor

- Statement re approved for use with 78105049, 7702-2606, 7702-3927, 7702-6094, 7702-3828, 7702-3836, 7702-3935, 7702-5286, 7703-6320, 7703-6321 and 7703-6322 (7703-6306 only).

- Statement re approved for use with 78105049, 7702-6987, 7702-6961, 7702-6979, 7702-7167, 7702-7175, 7702-7183, 7702-7191, 7703-6332, 7703-6333 and 7703-6334 (7703-6308 only).

- Enclosure rating Type 4X and IP66

- Ambient temperature