



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

M2W-ab-cde-fE. Monoscan Ex. Ultrasonic Level Detector.

IS / I, II, III / 1 / ABCDEFG / T4 Ta = 70°C; Type 4 – TEC0008A, TEC0009A.

a = main application; S (solid), L (liquid), or O (open channel / flow).

b = range; 1 (short range), or 2 (standard range).

c = transducer type; A (coated aluminum), or S (stainless steel).

d = transducer housing and threads; D (PVDF 2 inch NPT), C (PVDF 2 inch BSP), B (Polypropylene 2 inch NPT) A (Polypropylene 2 inch BSP), K (PVDF 2 inch NPT), P (PVDF 2 inch BSP), M (Polypropylene 2 inch NPT) or L (Polypropylene 2 inch BSP).

e = units; F (feet) or M (meter).

f = mechanical interface; G (connector), N (conduit 1/2 inch NPT), or B (conduit M20).

Special Conditions of Use:

1) The supplies from the two barriers are to be prevented from combining with each other in the supply cable by using a cable with a screen around each circuit, grounded on one end only.

M85-ab-cdefgE. Monoscan 485 Ex. Ultrasonic Level Detector.

IS / I, II, III / 1 / ABCDEFG / T4 Ta = 70°C; Type 4– TEC0010A, TEC0011A.

a = main application; S (solid), L (liquid), or O (open channel / flow).

b = range; 7 (short range), or 8 (standard range).

c = transducer type; A (coated aluminum), or S (stainless steel).

d = transducer housing and threads; D (PVDF 2 inch NPT), C (PVDF 2 inch BSP), B (Polypropylene 2 inch NPT) A (Polypropylene 2 inch BSP), K (PVDF 2 inch NPT), P (PVDF 2 inch BSP), M (Polypropylene 2 inch NPT) or L (Polypropylene 2 inch BSP).

e = units; F(feet) or M (meter).

f = mechanical interface; G (connector), N (conduit 1/2 inch NPT), or B (conduit M20).

g= (external unit)

1: 18-28VDC 2.4 W – HART

2: 18-28VDC 2.4 W – 3 SPDT relays

3: 18-28VDC 2.4 W HART and 3 SPDT relays

4: 100- 240VAC 50/60Hz - HART

5: 100- 240VAC 50/60Hz - 3 SPDT relays

6: 100- 240VAC 50/60Hz - HART and 3 SPDT relays

Special Conditions of Use:

1) The supplies from the two barriers are to be prevented from combining with each other in the supply cable by using a cable with a screen around each circuit, grounded on one end only.



Equipment Ratings:

Intrinsically Safe for use in Class I, II, and III, Division 1, Groups A, B, C, D, E, F, and G Temperature Code T4 Ta = 70°C, Indoor and Outdoor Use Hazardous (Classified) Locations.

Approved for:

Solid Applied Technologies, Ltd.
Ashkelon 78170, Israel



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

| | |
|----------------|------|
| Class 3600 | 1998 |
| Class 3610 | 1999 |
| Class 3810 | 1989 |
| Supplement # 1 | 1995 |
| NEMA 250 | 1991 |

Original Project ID: 3017834

FM Approval Granted: November 14, 2003


Subsequent Revision Reports / Date FM Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|-------------------|---------------|------|
| 040202 | February 16, 2004 | | |

FM Global Technologies LLC



Donald E. Major
Technical Team Manager



Date