

INTRINSICALLY SAFE EXPLOSION PROOF INDICATOR



Equipment for protection systems or components intended for use in potentially explosive atmospheres – Directive 94/9/EC.

Compliance with the essential health and safety is assured by compliance with EN 60079 series and SANS 60079 series

STAINLESS STEEL IP68 WEIGHING INDICATOR - Ex Rated

- Stainless steel enclosure – AISI 304
- IP 68 water protected
- Cable glands are all ATEX certified
- Six-digit red LED display, 20mm height
- Real-time clock/calendar with buffer battery
- Power supply 12-24Vdc $\pm 10\%$, 6W
- Theoretical calibration (via keyboard) and real calibration (with sample
- weights and the possibility of weight linearization up to 5 points).
- Operating Temperature: -20°C to 60°C

DEFINITIONS of some EX Terms

G	Gas, vapours or Mist
D	“Restricted breathing enclosure” – electrical protection against conductive dust Corresponding to a “dust tight enclosure”
IIa	Propane, acetone, benzene, butane, methane, petrol, hexane, paint solvents
IIB	Ethylene, propylene oxide, ethylene oxide, butadiene, cyclopropane, ethyl ether
IIC	Hydrogen, acetylene, carbon disulphide
T	Temperature

EX – CERTIFIED AS PER BELOW

II 3GD Ex nR [ic] IIC T6 Ex tc {icD} IIIC T72°C -20°C \leq T amb \leq +60°C

Approval:

Mtex Laboratory in South Africa

Ex Rating: Ex ib IIa T4 Gb / Ex d {ib IIa Gb} IIa Gb

Inspection Authority No.: MTEx-S/20.0404

Hazardous Area: Zone 2/22

Occurrence: Intermittent and abnormal

Hazardous Gas Group: Group IIc/IIIC

Permitted Temperature: T6/96°C (with 33% Safety Factor)

Ambient Temperature: -20°C to 60°C

Power - Choose Option:



24 VDC/1 A stabilized power supply – 6watt

100÷240 VAC input

Power supply in safe area

Ground must be less than 1 ohm

Additional earthing from Weighing Indicator casing to steel structure eg.

3 m cable length standard cable length



Battery pack made up of 8 NiMH rechargeable elements, 1.2 V, AA type

Non-removable

Charge indicator in SAFE AREA

Rechargeable Battery NiMH 2.4V

Battery present in Weighing Indicator – non removable

Charge indicator in SAFE AREA

Operating time: 16 hours