O.L.E. (UK) LTD

Tank Gauging, Tank Monitoring, Alarms & Controls

Z 5020-1A-ATEX Tank Gauge
WITH Local Alarms

Hazardous Liquids

For Petrol & Kerosene

Accuracy   +/- 0.25%   or better.

Two (2) Year Warranty

4-20 mA output + Modbus RTU standard

Weatherproof IP65 enclosures Zone 2

Suitable for any height / shape of Tank

Lower Maintenance Costs

Alarm Test Functions

Two button auto reset operation

Tank Gauge   +   4-20mA O/P + Modbus

High Audible Alarm. High or Low LED light.

Z 5020-1A-ATEX Features
Backlit Display showing: Litres Contents, Capacity, Ullage, Alarms, Status Bar & Tank Name.

Software settable (free download www)
Software allows Calibration of any shape or size of tank plus manual table entry. User programmable 4 Alarm set Points
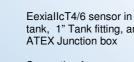
Tank Gauge Kits available as standard

For **Vented** Tanks
Gauge kit to suit up to 3.0 meter tank = P No Z5020-1A-ATEX-A12
Gauge kit to suit up to 5.0 meter tank = P No Z5020-1A-ATEX-A14
Gauge kit to suit up to 10 meter tank = P No Z5020-1A-ATEX-A16
    (above all come with 10 m cable on the sensors)

Gauge kit to suit up to 20 meter tank = P No Z5020-1A-ATEX-A18
Gauge kit to suit up to 30 meter tank = P No Z5020-1A-ATEX-A20
    (above all come with 30 m cable on the sensors)

For **Pressurised** Tanks consult Factory for D11 Probe systems

Zone 2/Safe

Gauge unit incorporates barrier T4020-A41A

Zone 0/1

EexiaIIcT4/6 sensor in tank, 1" Tank fitting, and ATEX Junction box

See option for interconnecting cabling

Options

B8-ATEX   Bund Alarm Probe 6m cable and 1" tank fitting + Barrier
R5   5 x volt free relay contacts, SPDT   HH, H, L, LL, Bund

T4020-01   Gauge programming Kit.
T4020-M1   Mounting kit for wall or 2" pipe or 3" pipe
CABLE-4-BLUE Cable for Intrinsically safe circuits, by the meter. 4 core.

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Alarms Outputs
There are 4 Software settable Level outputs M,1,2 & 3. High Alarm is connected to Master "M"
These outputs provide 24vdc when switched. Optional Plug on Relays make these Volt Free connections. Additional flashing lights or control functions are optional, as are Bund and Water bottom alarms on the T5020-1A-ATEX.

Inputs / Outputs
Power Supply 24vdc and 100/240 vac   (if ac supply, see installation notes)
Input : 1 x 4-20 mA   (either new or existing certified measuring sensor)
Output: Modbus RS485 and 1 x 4-20 mA corrected output. (Suitable for most Building Management Systems BMS).

Environment: Hazardous
Display is IP 65 weatherproof, for Zone 2 / safe area. Intrinsically safe sensors for Zone 0/1 installation are provided, and connected to the display via barriers. Display enclosures are RoHS & CE compliant.

Applications.
For Petrol and Kerosene or other flammable liquids in vented tanks,
Any tank shape can be programmed in this system. Safe area or EexiaIIc, Atex Zone 0/1 can be accommodated. (Display must be in safe area)

Sensor Options. Must be Intrinsically Safe
Any ATEX certified intrinsically safe or 4-20 milliamp device can be used to measure the product. As standard OLE utilise submersible Hydrostatic pressure transmitters. Options of Ultrasonic, Radar, and Mag sensors are available. DP sensors are offered for pressurised tanks, and for cryogenic applications.

Communications.
The T5020 provides an RS485 Modbus RTU connection into any suitable reader, or can be made into a remote gauge by the addition of an OLE T3100 GPRS web logger and e-mailer, or lower cost 420-WWW

Standard Accessories
There are standard tank connections supplied with each Gauge. This varies depending upon application.
Suitable termination in an IP65 ATEX Junction Box is provided.

Installation.
With simplicity in mind, the Z 5020 system can be installed in less than 1 hour. Sensor into tank, Cable gland clamped, wired to display or junction box (ATEX). Plug in lap top to configure. Test Alarm and scroll screen….
Option to have OLE set the gauge prior to shipment.
Option, Extra cable (Blue) between junction box and Gauge (max 100 m)