

OMNICOMM LLS 20230

ADVANCED TECHNOLOGY
FOR EXPLOSION-HAZARD
AREAS

99.2% ACCURACY WIDE

TEMPERATURE RANGE -60 +85C

UP TO 6 METERS PROBE LENGTH

REVERSE POLARITY PROTECTION

ADVANCED BUILT-IN FILTRATION ALGORITHM

RS232/EIA-485 INTERFACES

The sensor is intended to be used on special types of vehicles or stationary fuel storage facilities and tanks if the place of installation could be defined as the Potential Explosive Zone. Sensor bears the marking protection "0Eh11BT6X" and should be used only with Omnicomm BIS 20240 intrinsically safe barrier.

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OMNICOMM
FUEL MONITORING FOR
TELEMATICS SOLUTIONS

What makes it different from other Omnicomm sensors is that it connects and operates via the BIS 20240 block and a special KTZ cable, which provides complete protection for the whole solution. It allows installing and using these sensors in conditions of increased risk of explosions and higher associated safety requirements. Using the KTZ cable helps accommodate peripheral and terminal equipment with uncertified explosion-proof properties outside the explosion-hazard areas. Adding a BR-15 device to the solution makes it possible to use equipment bypassing the main switch, eliminating the possibility of causing damage to the sensor or terminal.

7-IN-1 BENEFIT PACKAGE:

- FLEET AND ASSETS SAFETY STATUS
- REAL TIME MOBILE FUEL TANKER LOCATION
- COSTS REDUCTION ON FUEL AND LUBRICANTS
- FUEL THEFT ELIMINATION
- FLEET OPERATION EFFICIENCY
- VOLUME, LOCATION AND FUEL DISPENSING ACCURATE DATA IN REAL TIME



MOBILE FUEL TANKER TRUCKS



FUEL STORAGE FACILITIES



GROUND STATIONARY TANKS



UNDERGROUND STATIONARY TANKS



FILLING STATION TANKS

OMNICOMM ONLINE CLOUD-BASED SOFTWARE



OMNICOMM LLS 20230



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BIS 20240



DISPENSE COUNTER WITH PULSER



GPS TRACKER OMNICOMM PROFI



FUEL LEVEL INDICATOR OMNICOMM LLD

LLS 20230

Length of probe – 1500 – 6000mm
Digital fuel level sensors model LLS 20230 is dedicated to connecting the GPS/GSM tracker or remote terminal unit (RTU) via serial input RS 232/EIA485.

The probe can be trimmed (cut in the field) according to the exact depth (height) of the fuel tank.



- Digital scale, points 0 - 4095
- Power supply, VDC 8,5-10,5 (from BIS 20240)
- Mode of operation continuous
- Baud rate, bit/sec 1200 - 115200
- Data lines galvanically insulated
- Power lines galvanically insulated
- Reverse polarity protected
- Resolution, mm $\pm 1,0$
- Main inaccuracy, % $\pm 1,0$
- Internal data filtration, points length 0-120
- Operation temperature, °C -60 +85
- Dust and water protection IP57

BIS 20240

BIS 20240 intrinsically safe barrier (Zener diodes safety barrier) applied to be used with LLS 20230 fuel level sensors if the place of installation could be defined as the Potential Explosive Zone and equipment should meet the IEC 60079-0-98 and 60079-11-99 requirements.



- Operation temperature, °C -40 +60
- Ingress protection rating IP57
- Dimensions, mm 115x64x55
- Weight, kg 1,5
- Power supply, V 11-50
- Marking [Exia]IIB
- Output intrinsically parameters
- Open-circuit voltage, U₀, V 10,5
- Short-circuit current, I₀, A 0,45
- Maximum external capacitance, C₀, uF 15,0
- Maximum external inductance, L₀, mH 1,0