



MESIT



LM5 Fuel Level Meter

A new solution for high-accuracy fuel measurement for railway and special vehicles and machinery.

The meter analyses the physical properties of various types of fuels, including biofuels.



CAPACITIVE COMPENSATION SENSOR FOR INTELLIGENT FUEL MEASUREMENT

Robust and highly reliable design

Multi-tank solution

Rapid detection of unauthorized fuel handling

Easy calibration and set-up via a PC

Remote firmware updates

Sophisticated diagnostics of operational reports

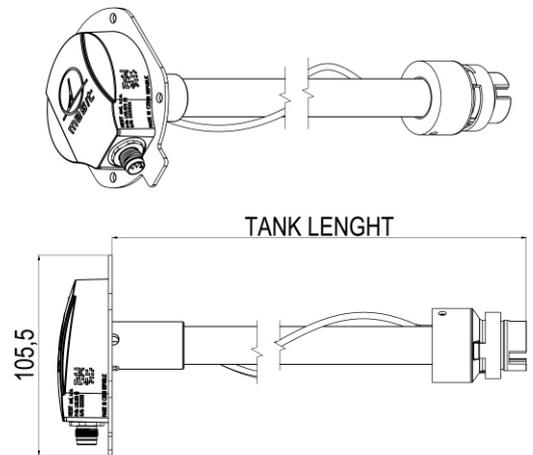
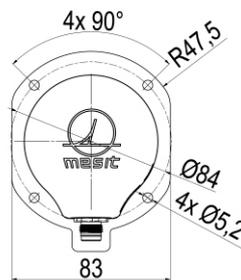
Easy installation with the possibility of shortening the length of the level meter

LM5 Fuel Level Meter

The LM5 capacitive level meter is primarily intended for measuring the fuel tank level of railway vehicles and machinery. It allows for continuous measurement of fuel levels (diesel, bio-diesel and oils). Capacitive level meters can also be installed for similar applications in stationary tanks, reservoirs, wells, etc. In vehicles, they are installed vertically in the upper part of tanks.

The capacitive level meter is a structural unit consisting of:

- transmitter head with built-in electronics,
- capacitive probe for fuel level sensing,
- capacitive compensation sensor for the measurement of the dielectric properties and temperature of the medium.



TECHNICAL PARAMETERS

Non-linearity	max. $\pm 0,75$ %
Temperature inaccuracy	max. $\pm 0,75$ %
Change compensation inaccuracy	max. $\pm 0,5$ %
Interface	CAN, RS 485
Measured medium	diesel, oil, biodiesel
Supply voltage	9 V to 36 V DC
Alarm input	open collector max. 50V/50mA
Operating temperature	-40°C to +80°C
Cable length (accessory)	15 m
Sensing probe length	1000 mm, 1200 mm
Hole diameter for inserting the level meter into the tank	41 mm
Weight (without a cable)	0,7 kg
Electronic equipment for railway vehicles	EN 50155
Fire protection on railway vehicles	EN 45545-2
Degrees of protection provided by enclosures	EN 60529 IP69K
Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts	EN 50102 IK10 antivandal
Electromagnetic compatibility	EN50121-3-2
Shock and vibration tests	EN 61373
Environmental conditions for equipment	EN 50125-1
Safety	EN50126



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