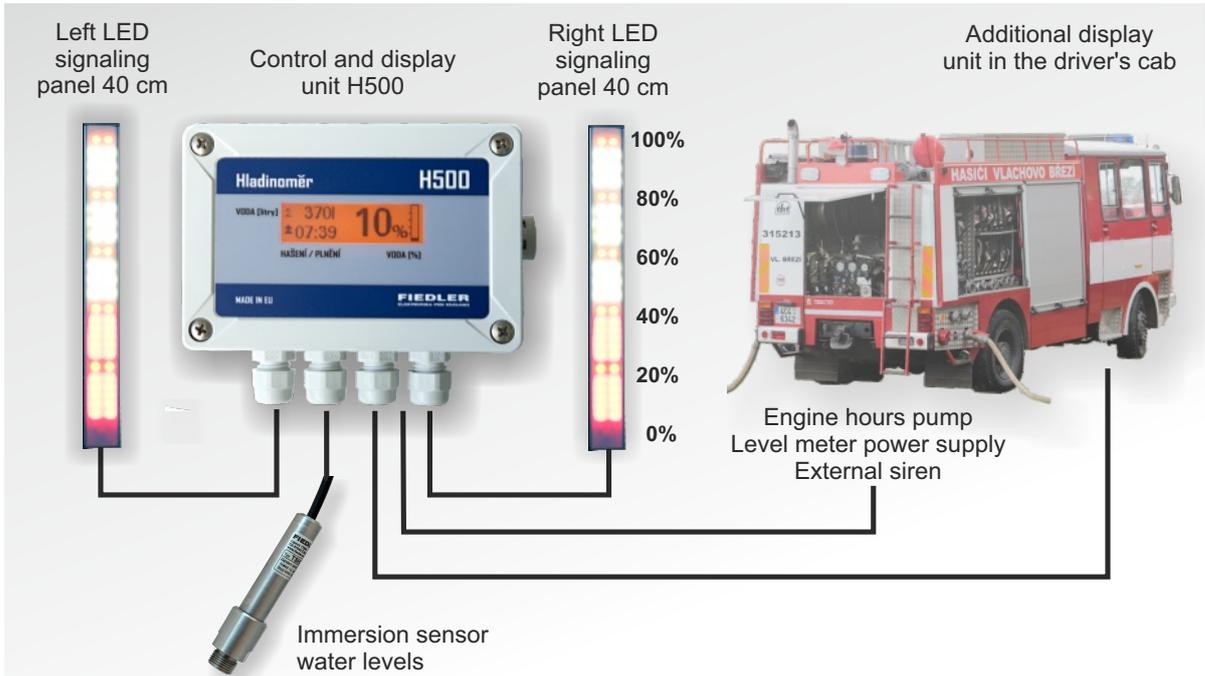


H500 Level Meter

with light signaling for tanks and fire trucks



- *Water level measurement in the tank with a resolution of 1 cm, graphic display*
- *Applicable for any types of tanks*
- *Display of absolute and percentage volume of water to tank volume*
- *Display of the time remaining until the tank is emptied or filled*
- *Pump operating hours*
- *Output for external siren*
- *Power supply from 24 V and 12 V system*
- *Two high-brightness signaling panels for remote overview of the current pumping / filling, step 20% of the tank volume*
- *Warning by flashing the panel of the approaching emptying / filling of the tank*
- *Output for display and communication unit located in the driver's cab*
- *When using the GSM communication module, an automatic record of the performed pumping cycles in the database on the server*
- *Mechanically resistant design, high IP67 protection, non-corrosive materials*

Basic description

The H500 level meter is designed to monitor the current amount of water in the tank of a fire truck.

The level meter control unit continuously measures the height of the water in the tank using an immersion level sensor and continuously calculates the current water volume (in liters and in% of the total tank volume) according to the tank dimensions. Both values are shown on the graphic display of the unit located near the pump operator.

In addition, the H500 level meter monitors the rate at which the level drops or rises when extinguishing or filling the tank, and the display also shows the time remaining until the tank is emptied or filled.

The H500 level meter also has an input for monitoring the pump's operating hours and an output for an audible siren, which can be used, for example, in the tank filling process.

The H500 level meter includes two high-brightness signaling LED panels designed for installation on the sides of a fire truck. Each 40 cm high panel contains 5 light sections divided by 20% of the tank volume. The number of illuminated sections at a distance of up to 150 m signals the current amount of water in the tank.

When the volume of water in the tank drops below 20% of its total volume, the lowest red section of the signaling panel will flash.

On the other hand, the highest white section of the signaling panel flashes gradually when filling the tank, if the filling value reaches 90% of its volume. The slow flashing gradually accelerates until it changes to a continuous light when the tank is completely filled.

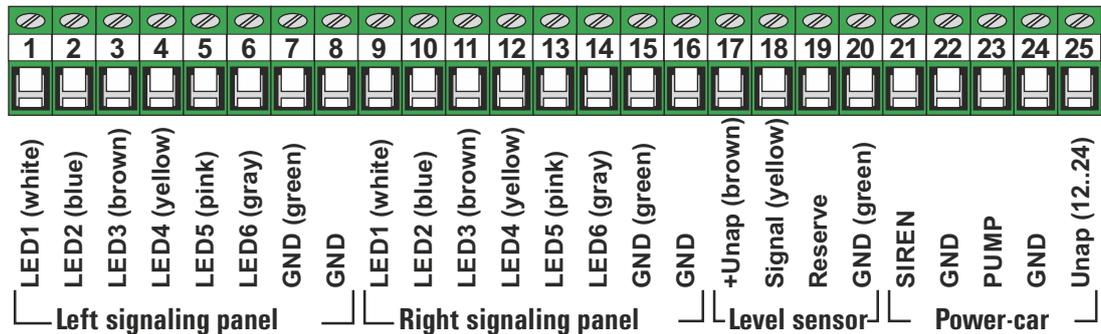
Installation

The installation of the H500 level meter should be entrusted to a trained person who not only mechanically fixes the level sensor, control unit and both signaling panels to suitable places of the fire truck, but also sets the control unit parameters according to the actual tank dimensions, connects cables to control unit terminals and leads to the unit power supply, or connects a siren and brings to the unit a signal to turn on the pump.

Externí zobrazovací jednotka

An additional H520-B display unit can be connected to the H500 level meter using a 4-core cable, which can be located, for example, in the driver's cab of a fire truck. The display of this unit shows identical data with the data on the display of the H500 unit, usually located near the pump operator.

Connection of terminal block H500



Technical parameters

H500 Level Meter:

Level sensor type:	train gauge absolute sensor, ATM compensation in the unit
Measuring range and accuracy:	0..5 (10) m water column, resolution 1 cm, accuracy 5 cm
Types of tanks:	entering x-y-z dimensions when installing the level meter
Calculation of water volume:	based on the level and dimensions of the tank - absolute [liters] and %
Calculation of emptying time:	based on the last minute pumping speed
Display:	graphic backlit
Information on the display:	current absolute and percentage volume of water, time until depletion
Output for siren:	12 V DC / 1A, siren switching on after exceeding the set volume limits
Input for monitoring the pump:	12..24 V DC / 10 mA (input is used for monitoring the operating hours)
Supply voltage / current:	12..24 V DC from the car distribution, current consumption max 3 A
Cabinet dimensions:	122 x 82 x 55 mm, 4 cable glands for connecting SP, Unap and sirens
Material / Protection:	ABS / Ip67

LED signaling panel:

Signaling section:	red LED: 0..20%; 20..40% white LED: 40..60% 60..80%, 80..100%
Signal visibility:	at least from a distance of 150 m
Limit state signaling:	gradually changing flashing rate <10% and >95% of the tank volume
Maximum power consumption	max. 28 W (both panels fully lit), max. 14 W one panel
SP connection cable:	length 3 m, 7-core cable with a diameter of 6 mm, color-coded wires
Signal dimensions. panel:	400 x 45 x 10 mm
Material; cover:	anodized Al, dispersible plastic cover; Ip67