



Product sheet

OptiLevel
Supply

Power supply, IS barrier and interface converter for Optilevel HLS 3010HF level sensors

benefits

Scalable up to
8 sensors per supply

Robust because of full
galvanic isolation

Seamless integrated
IS power conditioning

Easy integration in
Enraf Entis systems

Suitable for stand
alone use with display

The Optilevel Supply forms the interface between the host and the Optilevel sensors and combines the following functions:

- powering of up to 8 HLS 3010HF sensors per supply
- galvanic isolation between each individual sensor
- galvanic isolation between the main supply and the sensors
- interface converter from current loop sensor communication to RS-232C

The sensors are connected over individual current loops to the OPTILEVEL Supply. Should a loop be opened, the corresponding input is separated by the supply and automatically re-connected after the loop closes.

The Optilevel supply offers the possibility to address to a maximum of 8 sensors directly over a serial RS-232C interface. In case only a limited number of sensors has to be connected, for example for smaller sites or remote tanks, cost effective Optilevel supplies with only 1, 4 or 5 inputs are available. All supplies have to be mounted in the non hazardous area.

For larger installations, when using the Optilevel controller and HEC protocol via RS-232C communication, the power supplies can be cascaded up to 4 supplies with 8 channels per supply, resulting in up to 32 sensors in total. For integration in the Enraf Entis systems platform using the GPU protocol via RS-232C communication, each Optilevel supply has to be connected to an individual input on the CIU prime.



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Technical specifications

Optilevel supply	: Number of sensor inputs	Part number
	1 standard for 1 sensor	3881.750
	4 standard for 2-4 sensors	3881.751
	5 standard for 5 sensors	3881.752
	8 standard for 6-8 sensors	3881.753

Mechanical

Dimensions	: 300 x 230 x 85 mm (w x h x d)
Weight	: Approx. 2,2 kg
Entries	: M20 x 1,5 cable glands (allowed cable diameter 6-9 mm).

Environmental

Housing	: ABS
Protection class	: IP20
Ambient temperature	: 0..45°C under normal conditions : -25..45°C in case of continuous operation
Safety	: Intrinsic safe TÜV 98 ATEX 1382 II (1) G [Eex ia] IIB

Electrical

Main power supply	: 230 VAC, 48..62 VA approx. 40 VA
Sensor voltage	: 12,4 VDC, ca. 40 mA
Maximum cable lengths	: 250 m between supply and sensor : 20 m between supply and host system

Options

Connection cable HLS 3010HF level sensor to Optilevel supply unit

Type	: 3 x 0,75 mm ² shielded	
Length	: per meter	3881.754
	: 25 m - spooled	3881.755
	: 50 m - spooled	3881.756
	: 100 m - spooled	3881.757
	: >100m - spooled	3881.758

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