DPL

Two-channel ultrasonic level measurement and control for solids and liquids

DPL is an ultrasonic/radar level meter consisting of control electronics handling two independent channels and two transducers. Each channel is programmable as flow measurement, as level or volume measurement and control for liquids and solids, or as pump control. It is versatile, easy to programme and maintenance-free.
It can use all UTF / dBxx / dBR series transducers with a measuring range between 0.2 and 50m, depending on the transducer used. It is easy to install: simply place the transducer vertically on the materials to be checked and make the connections. DPL is used as level measurement in tanks or as flow meter in open channels or weirs. It can handle any combination of data collected by the 2 transducers.

It is able to manage tank loading and unloading systems so as to allow strict control of lifting. It adapts to the most diverse requirements and does not require the intervention of a specialist for installation and programming: it is programmable via the integrated keyboard or via PC and dedicated software. The electronics software analyses the return signal and is able to detect the true level inside a tank, distinguishing it from pipes, pumps or other obstructions.
It has 6 freely programmable SPTD relays. All operating parameters are recorded on a non-volatile memory to avoid problems in the event of a power failure. A freely programmable data logger that can record information for one year is available on request. The DPL has an RS485 Modbus or Profibus digital output (on request).

Continuous product development may lead to changes in the data displayed

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TECHNICAL SPECIFICATIONS

ELECTRONICS

Selectable power supply	115/230Vca + 5% -10% 50/60Hz, 10 ÷ 36Vcc 10W
Display	backlit, 6-digit, 12-character text, bargraph and indicators (flap, range) via keyboard or with PC via RS232 (RJ11 port) with SW available on request
Programming	2 isolated outputs 0/4 ÷ 20mA max. load 500Ω (programmable), resolution 0.1% RS232 via RJ11
Outputs	6 (SPDT) 5A @ 240Vac non-inductive
Digital full duplex	4 inputs 0/4 to 20mA normally closed or normally open,
Relay	min 4.5Vdc max 30Vdc (max 3mA) max total current 24mA
Entrances	11 inputs: 4 x PG13.5, 1 x PG9 underneath, 4 x PG11 at the back
Cable inlet	wall mounting IP65, band mounting IP64,
Electronic protection	panel mounting, on request, IP54
Electronic enclosure	polycarbonate, flame resistant UL91
Dimensions **Wall mounting** **Band mounting**	 235 x 184 x 120mm (W x H x D) Weight: 1Kg electronic -20 to 50°C 200 x 112 x 108 (W x H x D)) stainless steel enclosure, ABS faceplate frame
Temperature range	electronics -20 to 50°C
Accuracy	0.25 per cent of the measuring range or 6mm, whichever is larger
Solution	0.1% of the measuring range or 2 mm, whichever is larger
Certifications	EC, approvals: EMC BS EN 50081-1:1992 emissions, BS EN 50082-2:1995 immunity BS EN 61010-1:1993 and for low voltage directive The DPL must always be mounted in the safe area transducers can also be in the hazardous area *(See transducer specification for mounting in explosion-proof zone)*
Memory	removable 8GB micro SD card on request

TRANSDUCERS

Measurement range	0.3 ÷ 40m depending on the UTF transducer used
Antifreeze	IP68
Temperature	- 40 to 90°C depending on model
Assembly	for level measurements on solids the transducer must be mounted with an orientation joint

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