



Type 8175 can be combined with...



Type 2030



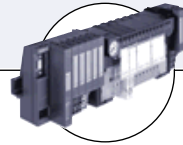
Type 2712

Continuous
Control Valve



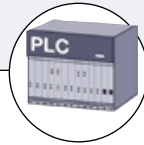
Type 6213

Continuous SIDE
Control



Type 8644

Valve island with
electronic I/O



PLC

- Level measurement up to 32.8 ft (10 m)
- Multi-language menu control
- Interference echo filter
- Extensive additional functions (simulation, Teach In, programmable tank shapes)

The Type 8175 is a non-contact filling level transmitter. It consists of an ultra-sonic sensor and an electronics module with a signal converter and a digital display. The sensor and the electronics module can be supplied as a

compact unit or as remote components. The remote electronics module is available in either wall or panel mounting. The units with the relay option make it possible to provide alarm messages and to automatically

carry out filling and draining procedures. The unit is suitable for measurements in open or closed tanks for all liquids, and also for limited use with solids (depending on angle).

Technical data	
Measurement range	For liquids Compact version 1.0 ft to 32.8 ft (0.3 m to 10 m) Panel / wall mount 1.0 ft to 23.0 ft (0.3 m to 7 m)
Measurement accuracy	± 0.25% of the measurement range
Resolution	± 1/8" (3 mm)
Blocking distance	12" (30 cm) from transmitter base
Frequency	50 kHz
Pulse rate	8 pulses/s
Full beam width	8° conical
Operating voltage	18 to 32 V DC or 115/230 V AC
Current consumption	≤ 200 mA
Current flow	Sinking or sourcing
Output signal (invertable)	4 to 20 mA or 20 to 4 mA
Alarm display	22 mA
Relay output (als Option)	2 relays (3 A) freely adjustable
Load	≤ 1300 Ω at 32 V, ≤ 1000 Ω at 24 V, ≤ 550 Ω at 18 V
Safety switching in case of loss of power or signal	Relay contacts drop off (N/O contact function)
Electrical connection	NPT 1/2, M16 x 1.5 ¹⁾

¹⁾ M16 x 1.5 = Cable gland for cables with Ø 4 - 8 mm

Technical data (continued)	
Display	8-digit LCD display, 9 mm high alphanumeric characters
Display of filling level	Selectable as cm, m, inch, feet
Display of volume	Selectable as l, m ³ , US gal or Imp gal
Operation	3 film buttons
Protection	Operating parts sealed by hinged cover in operation
Media temperature	-40 to +176 °F (-40 to +80 °C)
Ambient temperature	-4 to +140 °F (-20 to +60 °C)
Humidity	Max. 80% non condensated
Temperature compensation	Programmable, according to gaseous medium in the path of the pulses
Pressure range	≤ 29 psi (2 bar) at +77 °F (+25 °C)
Materials	
Sensor	PVDF
Transmitter body	
Compact and cabinet	PC with 20% glass-fibre
Field mounting version	ABS
Protecting class	IP 65
Mounting thread	NPT 2 or G 2

