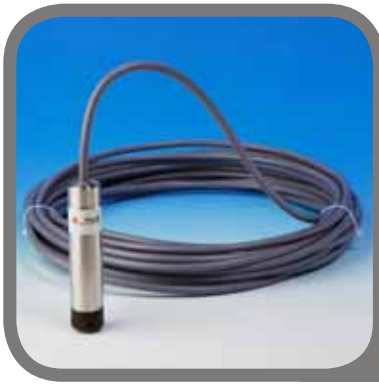
Water level
Technical features - MODELS



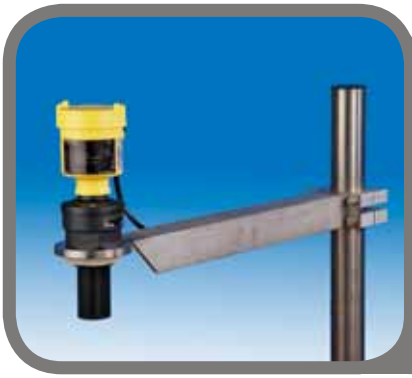
Water level sensor (summergible)

Piezometric submersible sensors designed for continuous level measurement in water applications. The sensor has a stainless steel housing and a flush ceramic diaphragm which prevents from the build up of solids of time and makes it easy to clean. The piezoelectric element detects the pressure difference between its location and the atmospheric pressure on the surface. This pressure difference is proportional the water level above the sensor. A special (ventilated) cable connects the sensor sensing element with the surface.

Order numb.	**DQC001.15**	**DQC001.20**	**DQC001.25**	**DQC001.30**	**DQC001.35**
Summergible cable	L = 15 m	L = 20 m	L = 25 m	L = 30 m	L = 35 m
	DQC001.40	**DQC001.45**	**DQC001.50**	**DQC001.55**	**DQC001.60**
Summergible cable	L = 40 m	L = 45 m	L = 50 m	L = 55 m	L = 60 m

Common features

Water level	*Principle*	Piezometric type
	Range	0÷10 m
	Uncertainty	< 0,5% Full scale (IEC60770)
	Thermal drif	<0,2% Full scale/10K
	Thermal compensation	0÷70°C
	Power supply	12÷36Vdc
	Power consumption	Max 20 mA
	Output	4÷20 mA (two wires)
	Material	Body: stainless steel. Sensor: ceramic, seals FKM Cable: PVC
	Dimensions	Ø = 27mm, L = 109,6mm



Water level sensor (Ultra-sonic)

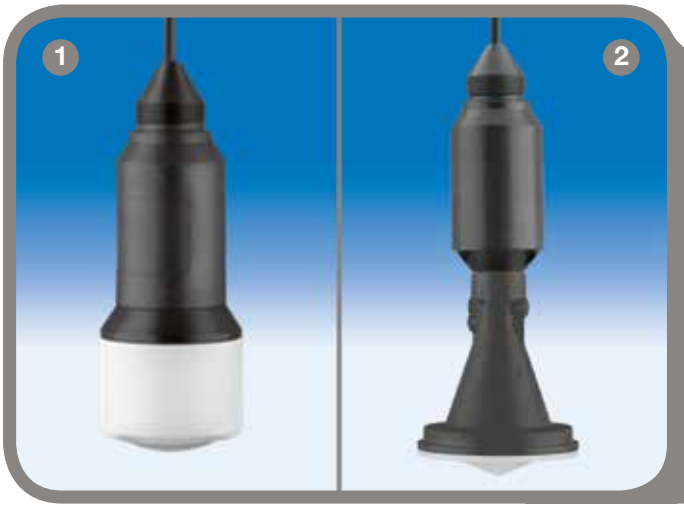
Ultrasonic sensor for continuous, non-contact level measurement of liquids. Short ultrasonic impulses in the range of 18 to 70 kHz are emitted by the transducer to the measured product, reflected by the product surface and received again by the transducer. The pulses are spread with sound velocity. The time from emission to reception of the signals is proportional to the level. These models are more suitable than the submersible type, when installation is made difficult due to strong currents, possible floods, river boarder not accessible, etc.

Order numb.	DQL003	DQL005	DQL006
Range	0,25÷5 m	0,4÷8 m	0,6÷15 m

Common features

Water level	*Principle*	Ultra-sonic (70 kHz)
	Uncertainty	± 1 cm (+18÷30°C, 860÷1060 hPa)
	Operative temperature	-40÷80°C
	Power supply	20÷36 Vdc
	Output	4÷20 mA
	Material	PVDF
	Weight	1,8 Kg

Accessories	Order numb.	
	DYA044	Lateral support for ø 50 mm pipe
	DQL100	Power supply system 12Vdc/24Vdc. Connection of DQL003-005 sensor to LSI LASTEM data logger. Mounting inside ELFxxx boxes.



Water level (Radar)

Radar sensor for continuous measurement of non-contact liquid level. A series of extremely short microwave pulses are irradiated by the sensor towards the surface of the water from which they are reflected and then newly received by the receiving system. The signal return time is proportional to the distance between the sensor and the water surface.
These models are more suitable than the submersible type, when the installation is made difficult due to strong currents, possible overflows and edges of the unaccessible water basins.

Order numb.	**DQL008** (1)	**DQL009** (2)
Measurement range	0÷8 m	0÷15 m
Accuracy	± 5 mm	± 2 mm

Common features

Water level	*Principle*	Radar (K band)
	Output	4÷20 mA
	Warm-up time	1 min
	Operative temperature	-40÷80°C
	Power supply	12÷35 Vdc
	Material	PVDF
	Protection	IP68
	Cable	L = 6 m

Accessories	**Order numb.**	
	DYA044.1	Lateral support for poles ø 45÷65 mm
	DYA049	Collar for fixing DYA044.1 on pole ø 45÷65 mm