



SENSORS & CONTROLLERS



ANALYZERS & SAMPLERS



LEVEL, FLOW & PRESSURE



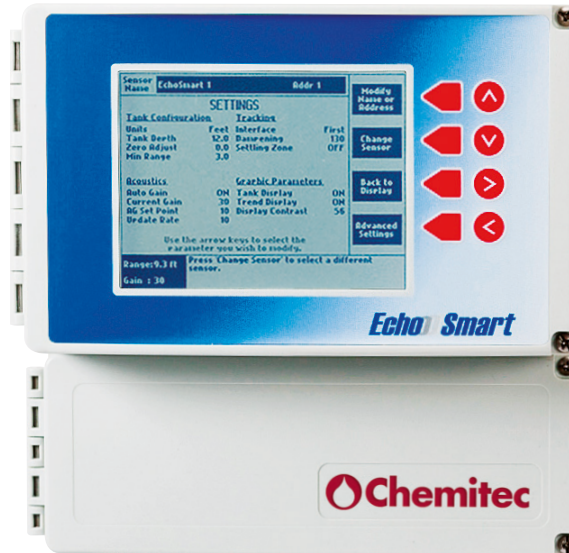
WEB APP & DATALOGGING



ACCESSORIES

# ECHOSMART DATASHEET

## ULTRASONIC MEASURING SYSTEM WITH SUBMERGED SENSOR



### MAIN FEATURES

- Superior signal control and performance of control algorithms
- Flexible combinations between sensor, control unit and power supply unit
- Network interconnection of up to 128 EchoSmart™ sensors
- Communication via RS-485 or Ethernet
- RF-compatible Zigbee wireless network integration
- Large display with intuitive screens for quick parameter entry
- Soft-key operation
- Initialisation and automatic calibration for quick start-up with no process interruption
- Up to 16 EchoSmart™ sensors can be connected in a network with a single EchoSmart™ controller for optimized operation and significantly reduced costs
- Zigbee's "self-healing" mesh technology eliminates unnecessary piping and wiring costs

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ECHOSMART DATASHEET

## TECHNICAL DATA

	Sensor	Control unit	Power supply
Measuring range	0.305... 10.0 m	–	–
Measuring principle	Ultrasonic immersion	–	–
Measuring interval	Adjustable	–	–
Resolution	3.05 mm at 3 m	–	–
Accuracy	0.03 m at 3 m	–	–
Operating temperature	1...52°C	–	–
Calibration	Factory calibrated; Adjustable speed of sound	–	–
Display	–	Monochrome graphic Backlit 320 x 240 pixels ; Visual area 92 x 122 mm	–
Material	ABS and Epoxy	320 x 240 pixels ; visual area 92 x 122 mm	
Self-cleaning wiper	Silicone (optional)	–	-
Environmental conditions	–	- 40...60°C	- 40...60°C
Power supply	15 VDC	Polycarbonate NEMA 4X with IP65 protection	
Power	3W with wiper 6W	65 W (fuse)	20 W 1.34A
Relay (optional)	–	Four (4) 10A at 250 VAC; 10A at 30VDC	-
Mounting	Fixed or flexible	Wall or pipe	-
Dimensions (L x H x P)	Standard 62 x 75 mm With wiper 146 x 75 mm	235 x 229 x 115 mm	181 x 181 x 61 mm
Weight	Standard 1.02 kg With wiper 1.25 kg	Approx. 1.36 kg	Approx. 0.68 kg