



Immersion sensor 40-14 Food, CIP, Varivent, L061

Item no. 21010156

The immersion sensor Varivent is primarily used in the food industry and complies with the high-hygienic requirements by its aseptic design. The sensor design is particularly optimized for CIP processes. The sensor includes the measurement of sonic velocity and temperature.

The robust and completely enclosed design requires no gaskets or „windows“ to the process and is thus completely maintenance-free.

Various additional features integrated in the sensor, like flow/stop monitoring and full/empty liquid monitoring in pipes, significantly increase the customer's benefit.

The LiquiSonic® high-power technology guarantees stable measuring results even at proportion of gas bubbles and signal attenuation by the process liquid.

The sensor electronics are enclosed in a stainless steel housing with IP68 degree of protection (NEMA 6P).

Specifications

Sensor	
immersion length	61 mm (2.4")
flange	Varivent (type N)
maximum pressure stage	PN 16 (230 psi)
process temperature	-20 °C to 120 °C (-5 °F to 250 °F)
feature inclusive	flow/stop detector
options	SonicGraph® (oscilloscope) attenuation measurement
Electronic housing	
type	stainless steel housing
dimensions	200 x 140 x 100 mm (8" x 5.5" x 4") width x depth x height
material	stainless steel DIN 1.4404
degree of protection	IP68 (NEMA 6P)
ambient temperature range	-25 °C to 60 °C (-15 °F to 140 °F)
Electrical data	
Electrical data	24 V DC ±15 %
power consumption	3 W
fuse	internal delay fuse with 375 mA rated current
connections	screw terminals, maximum nominal cross section: 2.5 mm ²
EMC	compliance with directive 2014/30/EU
electrical security	24 V DC ±15 %

Data interfaces

sensor bus	standard: maximum 1000 m (3280 ft) cable length optional: longer than 1000 m (3280 ft)
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Measuring values

sonic velocity	measuring range: 1000 m/s to 3000 m/s resolution: 0.01 m/s repeatability: ± 0.02 m/s accuracy: ± 0.05 m/s configurable update rate: 250 ms to 1000 ms
temperature	measuring range: -20 °C to 120 °C resolution: 1 mK repeatability: ± 0.02 K accuracy: ± 0.025 K configurable update rate: 250 ms to 1000 ms
attenuation (optional)	measuring range: 80 dB resolution: 0.1 dB repeatability: ± 0.2 dB accuracy: ± 0.3 dB configurable update rate: 250 ms to 1000 ms

