

GE Sensing

Features

- High accuracy temperature, pressure and humidity measurement
- Broad operating range
- 10,000 data sample memory
- Economical field-replaceable battery
- Operator programmable sample rate, start, delay and stop function

The ValProbe family of data loggers provide accurate, convenient and reliable process measurement for a wide range of pharmaceutical, and medical device applications. The wireless design greatly simplifies monitoring and validation of severe and hard-to-reach environments including:

- Sterilizers
- Ovens
- Tunnels
- Lyophilizers
- Stability chambers
- Warehouses
- Temperature chambers

Kaye ValProbe® Data Loggers

Kaye ValProbe is a Kaye product.
Kaye has joined other GE
high-technology sensing businesses
under a new name—
GE Industrial, Sensing.



Data Loggers Specifications

Sensing Element	Precision Platinum RTD
Measurement Range and Accuracy	0°C to 140°C, ±0.1°C -45°C to 0°C, ±0.25°C
Environmental	
Temperature	-60°C to 140°C
Humidity	0% to 100% humidity, condensing
Pressure	0 to 10 bar absolute (0 to 130 psi)
Logger Material	316L stainless steel
Logger Base Dimensions	1 13/16 in x 1 3/8 in diameter (46 mm x 35 mm)
Battery	Field-replaceable 3.6 V lithium thionyl chloride
Sampling Rate	1 second to 12 hours
Data Storage	10,000 samples retained in non-volatile EEPROM memory
Calibration	Factory calibrated (NIST-traceable) with user calibration capability
Real Time Clock Accuracy	15 seconds per 24 hours (0.0174%) from -60°C to 140°C
Regulatory Compliance	UL, CE and Intrinsically Safe

Rigid Probe

Probe Construction

- 316L stainless steel
- .12 in (3 mm) diameter with M5 threaded base

Consult factory for 1/16 in (1.6 mm) and 3/16 in (4.8 mm) diameter probes

Configuration

- Specify probe length (L) in inches
 - Standard length of 1 1/2 in (32 mm)
 - Custom lengths available from 1 1/2 in (32 mm) to 9 in (225 mm)
- Specify tip configuration (T) as pointed (P) or round (R)
- Part number XVP-L-T

Flexible Probe

Probe Construction

- 316L stainless steel
- .12 in (3 mm) probe tip

Consult factory for 1/16 in (1.6 mm) and 3/16 in (4.8 mm) diameter probes

Configuration

- Specify flexible PTFE cable length (C)
 - Standard lengths of 6 in (150 mm), 12 in (300 mm), 18 in (460 mm), 24 in (600 mm) to 120 in (3 m) in 12 in (300 mm) increments
 - Custom lengths available from 6 in (150 mm) to 120 in (3 m)
- Specify stainless tip length (L) in inches
 - Minimum 1.5 in (38 mm)
 - Maximum 9 in (230 mm)
- Specify tip (T) P or R
- Part number XFVP-C-L-T

Bendable Probe

Probe Construction

- 316L stainless steel
- 1 1/2 in (32 mm) pointed stainless steel tip of .12 in (3 mm) diameter
- Mineral insulated bendable stem with M5 threaded base

Configuration

- Specify stem length (L) in inches
 - Minimum 6 in (150 mm)
 - Maximum 60 in (1.5 m)
- Part number XBVP-L

Data Loggers Specifications

Pressure Logger Specifications

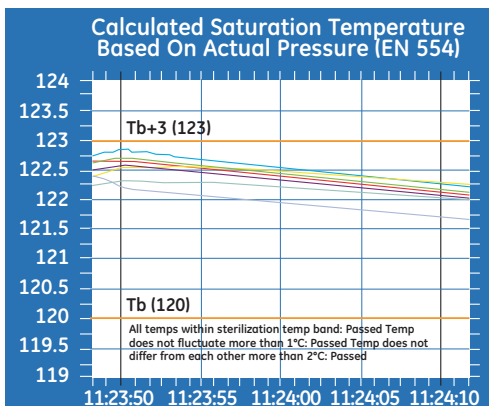
Sensing Element	Pressure	
Pressure	Absolute pressure sensor	
Operating Range	0 to 5 bar absolute (0 to 73 psia) from 0°C to 140°C	
Accuracy	Temperature Range	Accuracy
	>0°C to 120°C	±25 mb
	>120°C to 135°C	±10 mb
	>135°C to 140°C	±25 mb
Environmental	Temperature	
Temperature	-60°C to 140°C	
Pressure	0 to 5 bar absolute (0 to 73 psia)	
Logger Dimensions	1 13/16 in x 1 3/8 in diameter (46 mm x 35 mm)	
Total Height	2 13/16 in (72 mm)	
Logger Material	316L stainless steel	
Battery	Field-replaceable 3.6 V lithium thionyl chloride	
Sampling Rate	1 second to 12 hours	
Data Storage	10,000 samples retained in EEPROM memory	
Calibration	Factory calibrated (NIST-traceable) with user calibration capability	
Real Time Clock Accuracy	15 seconds per 24 hours (0.0174%) from 0°C to 95°C (32°F to 203°F)	
Regulatory Compliance	UL, CE and Intrinsically Safe	
Part Number	X2530	



Humidity Logger Specifications

Sensing Element	Humidity	
Humidity	Reactive polymer	
Temperature	Precision platinum RTD	
Measurement Range and Accuracy	Operating Range	Accuracy
Humidity	20% to 85% RH	±0.2% RH at 25°C non-condensing* ±0.1°C
Temperature	0°C to 95°C	
Environmental	Temperature	
Temperature	0°C to 95°C	
Humidity	0% to 100% humidity, condensing	
Pressure	0 to 10 bar absolute 0 to 145 psia	
Logger Material	316L stainless steel	
Logger Dimensions	1 13/16 in x 1 3/8 in diameter (46 mm x 35 mm)	
Total Height	3 1/8 in (79 mm)	
Battery	Field-replaceable 3.6 V lithium thionyl chloride	
Sampling Rate	2 seconds to 12 hours	
Data Storage	10,000 samples retained in EE PROM memory for each sensor (humidity and temperature)	
Calibration	Factory calibrated (NIST-traceable) with user calibration capability	
Real Time Clock Accuracy	15 seconds per 24 hours (0.0174%) from 0°C to 95°C	
Regulatory Compliance	UL, CE and Intrinsically Safe	
Part Number	X2520	

*±3% RH for sensors replaced in field



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