Intrinsically-Safe Data Logger Ex 171-0 / Ex 171-3

For the recording, processing and documentation of temperature and humidity levels in hazardous areas.

- memory capacity:
  up to a maximum of 55,000
  measurements
- real-time storage capability
- RS 232 serial interface
- robust housing
- simple, straightforward & easy to use

Ex-data:
Ex designation
⟨Ex⟩ II 2 G EEx ia IIC T4

EC-Certificate of conformity:
TÜV 00 ATEX 1586

Scope of supply:
Ex-171-0 incl. internal temperature probe, battery, startmagnet and calibration-certificate

Ex-171-3 incl. internal temperature probe, humidity probe, battery, startmagnet and calibration-certificate

Accessories:
Comsoft 3 (without Interface), 4 languages (German; English; French; Italian)
Interface for Comsoft 3

The data logger series Ex-171 is used for the measuring and storing of temperature and humidity levels in hazardous areas. The robustly designed metal casing that houses the equipment ensures constantly high measurable accuracy over a wide temperature range even under extremely harsh industrial conditions. With its precise measuring and documentation capabilities the Ex-171 series has wide ranging applications in the petro-chemical and pharmaceutical manufacturing industries. Particularly in pharmaceutical production, the parameters of temperature and humidity are of critical and vital importance as they effect product quality both during and after the production process. With sensitive products, for example, possible damage can occur due to incorrect storage. This type of situation can be easily monitored and interrogated with the use of the EX-171 series of data loggers. Complete data analysis and data-integration with other programs is carried out through the use of the menu-driven software based on Windows 3.1. Once outside of the hazardous area, data can then be easily transferred into a PC by means of the straightforward serial interface.

Technical data:	Ex 171-0		Ex 171-3	
Measurements	Temperature		Temperature	Relative Humidity
Reading recorder	Internal NTC-aerial		Internal NTC-aerial	Internal capacitor humidity sensor
Measurement range	-31°F…+158°F		14°F…+122°F	0…100% r.H.
Resolution	0.18°F		0.18°F	0.1% r.H.
Accuracy	± 0.9°F ≤ +104°F		± 0.72°F	± 2% r.H. (± 1 Digit)
	± 1°F › +104°F			from 2…98% r.H.
Measuring interval	2sec...24h		2sec…24h	
Memory	55,000			55,000
Protection rating	IP68			IP65
Power supply		Lithium battery size AA		
Housing		Anodised aluminium		
Dimensions	5.1'' 2.7'' x 1'' (131 x 68 x 26 mm)			5.1'' x 2.7'' x 2.8'' (131 x 68 x 72 mm)
Ambient temperature	-31°F…+158°F		-14°F…+122°F	
Storage temperature		-40°F…+185°F		
Software		Windows 3.1		
Scope of supply incl. battery, starting magnet, operating instructions and calibration protocols				