



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



For the recording, processing and documentation of temperature and humidity levels in Ex-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

The data logger series Ex 171-0 / 171-3 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 Ex171 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 EX171 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.

Standard delivery:

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; Italien)
Comsoft 3 Version 2 | CFR I |
Interface for Comsoft 3

| Technical data: | Ex 171-0 |
|---------------------|------------------------------------|
| Measurements | Temperature |
| Reading recorder | Internal NTC-aerial |
| Measurement range | -35°C...+70°C |
| Resolution | 0,1°C |
| Accuracy | ± 0,5°C ≤ +40°C ± 0,6°C > +40°C |
| Measuring interval | 2sec...24h |
| Memory | 55.000 |
| Protection rating | IP68 |
| Power supply | |
| Housing | |
| Dimensions | 131 x 68 x 26 mm |
| Ambient temperature | -35°C...+70°C |
| Storage temperature | |
| Software | |

| | Ex 171-3 |
|-------------------------|------------------------------------|
| Temperature | Relative Humidity |
| Internal NTC-aerial | Internal capacitor Humidity sensor |
| -10°C...+50°C | 0...100% r.H. |
| 0,1°C | 0,1% r.H. |
| ± 0,4°C | ± 2%rF (± 1 Digit) |
| | bei 2...98% r.F. |
| 2sec...24h | |
| | 55.000 |
| | IP65 |
| Lithium battery size AA | |
| Anodised aluminium | |
| | 131 x 68 x 72 mm |
| | -10°C...+50°C |
| -40°C...+85°C | |
| Windows 3.1 | |

