

## Datenlogger GSM-ER-20

The battery-operated multi-channel data logger in a stainless steel or synthetic housing stores and transports the measured data acquired from the connected sensors in the field by wireless. The range of ten kilometers per data logger in the ISM wireless band can be extended to up to 40 kilometers by battery-operated relay stations. Depending how often measurements are made and transmitted, the power supply of the data logger and the sensors is guaranteed for between five and ten years.

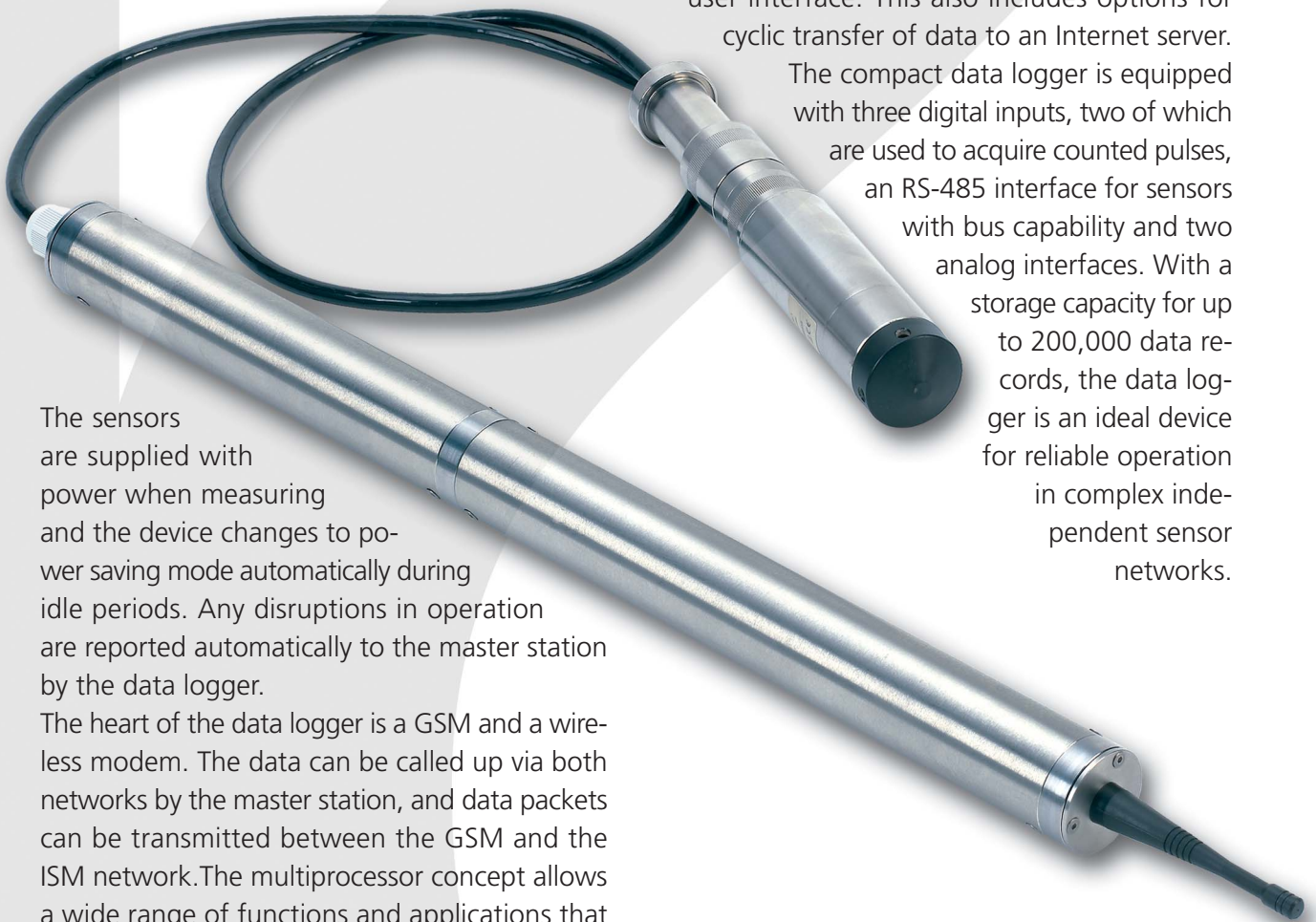
Multi-channel logger  
call via GPRS/ISM  
wireless 448/869 MHz  
Active reporting of disruptions  
Menu-guided user interface  
Battery operation  
5-10 years

can be configured simply with a menu guided user interface. This also includes options for cyclic transfer of data to an Internet server.

The compact data logger is equipped with three digital inputs, two of which are used to acquire counted pulses, an RS-485 interface for sensors with bus capability and two analog interfaces. With a storage capacity for up to 200,000 data records, the data logger is an ideal device for reliable operation in complex independent sensor networks.

The sensors are supplied with power when measuring and the device changes to power saving mode automatically during idle periods. Any disruptions in operation are reported automatically to the master station by the data logger.

The heart of the data logger is a GSM and a wireless modem. The data can be called up via both networks by the master station, and data packets can be transmitted between the GSM and the ISM network. The multiprocessor concept allows a wide range of functions and applications that



## Data logger GSM-R-20

### Technical specifications

|                      |  |
|----------------------|--|
| Digital inputs       | 3 inputs, 2 of which can be used as counters       |
| Analog inputs        | 2 inputs, 0-20 mA, 4-20 mA, resolution 24 bits     |
| Interface 1          | USB  |
| Interface 2          | ISM wireless modem, 1 watt, 434, 448, 459, 869 MHz |
| Interface 3          | RS-485   |
| GSM                  | Quad band, CSD, GPRS, EDGE                         |
| Meas. value storage  | 200,000 data records                               |
| Configuration        | Via interface 1, 2 GSM                             |
| Power supply         | 2 lithium cells 26 Ah                              |
| Temperature range    | -25 to +55°C                                       |
| Housing              | Stainless steel 38 mm x 500 mm                     |
| Degree of protection | IP68   |

