



Battery-powered data logger IDS 620

The battery-powered IDS 620 data logger is suitable for installation in places without power supply, e.g. in meter ducts.

It is designed for installation on a DIN top-hat rail inside an IP65 plastic housing for wall-mounting. For data transmission, a V.24 interface is available to which an GSM modem can be connected, which, however, is activated only for selection/data transmission.

The battery can be exchanged without loss of parameter settings. The accumulator can be recharged by means of solar cells.

Accumulators/batteries, the solar module and the GSM module are available as extra accessories.

Hardware

The IDS 620 data logger is equipped with 4 signal inputs, 4 + 1 analog inputs (one input for monitoring of the battery) and 4 counter value inputs. In addition, there is a serial RS232 communication interface and a RS232 service and parameterisation interface.

Software

Communication takes place via telecontrol protocol IEC 60870-5-101. Parameterisation of the IDS 620 data logger can be carried out locally via the service interface, using the ACOS ET engineering tool, or through remote parameterisation by means of the IDS HIGH-LEIT SCADA system. IDS 620 has an archive memory designed for approx. 12,000 values. Transmission of archive values to the IDS HIGH-LEIT SCADA system is possible; the time of transmission can be preset during parameterisation. Additionally, IDS 620 has a limit monitoring function for analog values.



IDS 620 data logger

IDS 620 - technical data

Hardware	
Assembly	DIN top-hat rail inside an IP65 plastic housing for wall-mounting
Housing dimensions	W300 x H400 x D200 mm
Input voltage U_{in}	12 V DC
Power consumption without modem	300 µA (Sleep mode) 15 mA (running operation)
EMC compatibility	ETSI 301 489-1:V1.4.1:2002;cl.9.2; 9.3; 9.4; 9.5; 9.7; 9.8
Ambient conditions	Ambient temperature 0° ... 65° C Air humidity < 95% (non-condensing) Altitude: max. 2000 m
Interfaces	Serial communication interface (RS232) Service/parameterisation interface (RS232)
Digital Inputs	
Quantity	4
Voltage	Potential-free contact; supply through IDS 620
Power consumption	60 µA (350 µA optional)
Analog Inputs	
Quantity	4 (+ 1 for battery monitoring)
measuring range	10 V (15 V for battery monitoring)
Resolution	10 Bit (0-1024), unipolar, normed for 16 Bits
Input resistance	190 kΩ
Zählwerteingänge	
Quantity	4
Sensor type	Potential-free contact; supply through IDS 620
Resolution	32 Bits
Permissible input frequency	2 Hz
Power consumption	100 µA