



Data logger DL716-Tetra / DL716-GSM / DL716-LTE

The data logger DL-716 is a compact device with a very low power consumption. The optionally available modems are integrated in the data logger and are powered by the data logger. Battery powered measurements and GSM data transfers up to 10 years.

- Onboard equipment up to:
 - 6 analog channels mA / Volt / PT1000
 - 6 digital counter inputs onboard, optional up to 32 counter inputs with external junction modules
 - 3 digital alarm / status inputs
 - M-Bus (or mini = "LowPower") or Modbus interface
 - Sensors:
 - Level, pressure, temperature, humidity ...
 - pH, conductivity, chemical quantities ...
 - Precipitation, flow and conditions ...
 - Memory capacity $\geq 2.040.000$ values
 - Serial / USB interface for PC
 - Power supply depending on model by:
 - 2 x battery pack (Alcaline or Lithium)
 - External with solar panel, 12 VDC, 24 VDC, 110 VAC, 230 VAC and buffer battery
 - Up to 10 years battery life with daily measured value transmission (GSM)
 - Protection class IP65
- Options:**
- Pulse doubler for all counter inputs:
 - Potential-free outputs for forwarding to additional detection devices
 - Built-in modem (GSM / GPRS / UMTS / LTE, Tetra, leased line ...)
 - Send measurements and alarms to:
 - Control rooms and internet servers
 - Fax devices
 - GSM mobile phones
 - Antennas:
 - Rod antenna (direct or with cable)
 - Directional antenna
 - 1, 2, 4 or 8 switching outputs
 - Optional protection class IP68
 - LCD display with backlight
 - Connection sockets RD24 for measuring cables

Technical data:

- Waterproof, rugged aluminum housing (IP65)
- Up to 6 analog measurement channels for sensors (resolution: 0.025 %)
- Adjustable measuring rate from 32 Hz up to 30 days
- Switched sensor supply (3 Volt \pm 5 %, loadable up to 10 mA)
- Measuring ranges:
 - Voltage: 0 – 1 V
 - PT1000: -40 – +100 °C
 - Current: 0 – \pm 20 mA, 4 – 20 mA
 - Event: e.g. Reed contact up to 1 event per second
 - Digital: Low < 10k Ω , High > 200 k Ω
 - Frequency: 0,01 Hz to 6 MHz
- Storage capacity 4 GB to 32 GB (about 2,040,000 to 16,768,000 values)
- Powered by solar panel or power supply with additional buffer battery:
 - Power reserve for approx. 1,000 transmissions and approx. 15,000 measurements
- Powered by batteries:
 - 2 separate battery packs with adjustable alerting
 - Battery packs can be exchanged individually, are discharged one after the other
 - Display of consumed battery packs also at the logger front panel
- Operating time without battery change under standard conditions:

GSM-Transfer	Lithium cycle*				Alkaline cycle*			
	1 minute	5 minutes	15 minutes	60 minutes	1 minute	5 minutes	15 minutes	60 minutes
all 15 minutes	1 year	1 year	1 year	1 year	6 months	6 months	6 months	6 months
hourly	2,5 years	2,5 years	2,5 years	2,5 years	1,5 years	1,5 years	1,5 years	1,5 years
all 6 hours	6 years	6 years	6 years	6 years	3 years	3 years	3 years	3 years
daily	10 years	10 years	10 years	10 years	4 years	4 years	4 years	4 years
weekly	10 years	10 years	10 years	10 years	5 years	5 years	5 years	5 years

* The operating time is shortened when using the optional M-Bus and Modbus depending on the measuring clock.

- Dimensions: 300 mm x 200 mm x 150 mm (L x B x H)
- Order number: **D716A2102 m GSM D**

