

Technical Data

Communications interfaces

- Ethernet RJ-45 10 Base-T (netDL 1000: 1)
- USB Host and USB Device
- RS-232 (netDL 1000: 2; netDL 500: 1)

Sensor interfaces (standard version)

- SDI-12 V1.3
- RS-485 (SDI-12/Modbus RTU)
- Pulse/status input (netDL 1000: 4; netDL 500: 2)
- Status output (2)
- Switch output (2)

Input/output modules

- Analogue inputs (configurable)
- Analogue outputs (configurable)
- Analogue inputs, isolated (configurable)
- Serial input module for OTT Sensors
- Barometric input board

Measuring channels

Standard: 40; optionally 120

IP communication

- Integrated TCP/IP stack (HTTP, HTTPS, FTP, SMTP, Socket...)
- GSM/GPRS/3G, Ethernet/DSL, PPP over landline
- Integrated web server
Encrypted data transmission HTTPS
SSL 3.0/TLS 1.0/1.1/1.2

Integrated modem (optional)

GSM/GPRS
900/1800, 850/1900 MHz
GSM/GPRS; 3G (UMTS/HSPA+)
900/1800, 850/1900 MHz;
800/850, 900, AWS 1700, 1900,
2100 MHz

Operating system

RTOS with power management for minimal power consumption

Time synchronisation

SNTP (Simple Network Time Protocol)

Power supply

9 ... 28 V DC (typ. 12 V DC)

Power consumption at 12 V DC

- Sleep mode: < 250 μ A;
Sleep mode, impulse active: < 10 mA
- Active mode:
approx. 25 mA ... max. 400 mA
(depending on configuration)

RAM / NOR / NAND Flash

4 MB / 8 MB / 256 MB

Data memory

- Up to 1,100,000 values
- OTT Parsivel spectral data

Display

- Graphical dot matrix (122 x 32 pixels)
- LED backlight
- Controlled by jog shuttle

Status display

2 x LED (variant with integrated modem)

Temperature range

- Operation: -40 °C ... +70 °C
- Storage: -50 °C ... +85 °C
- Internal modem: -30 °C ... +70 °C
- Display (display on): -20 °C ... +70 °C

Relative humidity

5 ... 95 % (non condensing)

Dimensions (L x W x H)

- netDL 1000: 232 mm x 124 mm x 86 mm
- netDL 500: 148 mm x 124 mm x 86 mm

Housing

ABS

Protection class

IP 41