

Delta Logger

Industrial Data Logger

Bausch Datacom engineering!

Data Logger

The Delta Logger is a logging device with 2 analog inputs, one SDI12 and one counter interface. The device is battery powered and functions as a stand-alone data logger, collecting data from its sensors and transmitting the data through LTE Cat M1/Cat NB1, EGPRS, GPRS, LoRaWan or Sigfox at programmable intervals. It can also be configured as Gateway collecting data from remote sensors using LoRa modulation.



Types:

- Delta_MU_BG96:
LTE Cat M1/Cat NB1/EGPRS/LoRa/Sigfox
- Delta_MU_M95:
GPRS/LoRa/Sigfox
- Delta_MU_XX:
LoRa/Sigfox
- Delta_XX_BG96:
LTE Cat.M1/Cat.NB1/EGPRS
- Delta_XX_M95:
GPRS

Product Highlights

- Data logger
- LTE Cat M1 / Cat NB1 / EGPRS
- GPRS
- LoRa / LoRaWAN
- Sigfox
- Battery powered
- 2 analog inputs, SDI12 & counter interface
- Nano SIM (eSIM optional)

Typical Applications

- Water measurement logging
- SDI12 sensor logging & communication
- Electricity market pulse counting
- IoT applications

BAUSCH DATACOM

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Delta Logger specifications

Basic variants of the Delta Logger:

Delta Logger LoRa,



Delta_MU_XX

Delta Logger / Gateway GPRS LTE Cat.M1 / LoRa/Sigfox



Delta_MU_BG96

LoRa/Sigfox



EGPRS/LTE Cat.M1/Cat.NB1/Sigfox



Housing

- Enclosure: IP66 / IP67
- Dimensions/ 72X72 mm with cutouts and holes to fit Spelberg TG PC 88-6-0

Power Supply

- 3,3 – 3,6 Vdc battery
- Onboard Supercapacitor
- Battery Voltage monitor

Interfaces & Connectors

- 2x Analog interface:
16 bit ADC
Input range: -0,2 .. 5Vdc
Input Impedance > 2,5 MOhm
- SDI 12 sensor interface
Max. 4 devices
20 readings per device
- Micro USB 2 port for configuration and programming
- SMA antenna connector
- Nano card SIM / eSim optional
- Counter. Contact to GND

Environmental

- Operating Temperature: -10°C + 50°C

Communication Engine

- LTE Cat.M1/Cat.NB1/EGPRS
- Quad band GPRS
- LoRa
- Sigfox

Certification

- CE

Processor

- Low power microcontroller sleep mode: < 100uA
- Dual bank Program flash for firmware upgrades
- 8Mbyte Data Flash
- Real Time Clock 3ppm
- Remote configurable and programmable

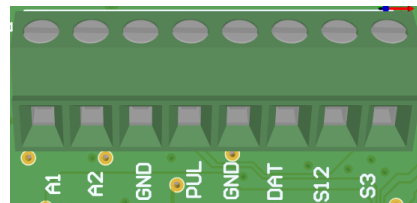
Battery Connector

- Pin1: GND
- Pin2: + 3V6



Interface connector

- Pin1: A1 Analog input 1 range: -0,1 to 5Vdc
- Pin2: A2 Analog input 2 range: -0,1 to 5Vdc
- Pin3: GND Ground
- Pin4: PUL Pulse Input low active
- Pin5: GND Ground
- Pin6: DAT SDI12 data line
- Pin7: S12 2Vdc / 50mA max.
- Pin8: S3 3.6Vdc / 50mA max.



Expansion connector

- 2 X 5 PIN 0,254mm header

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