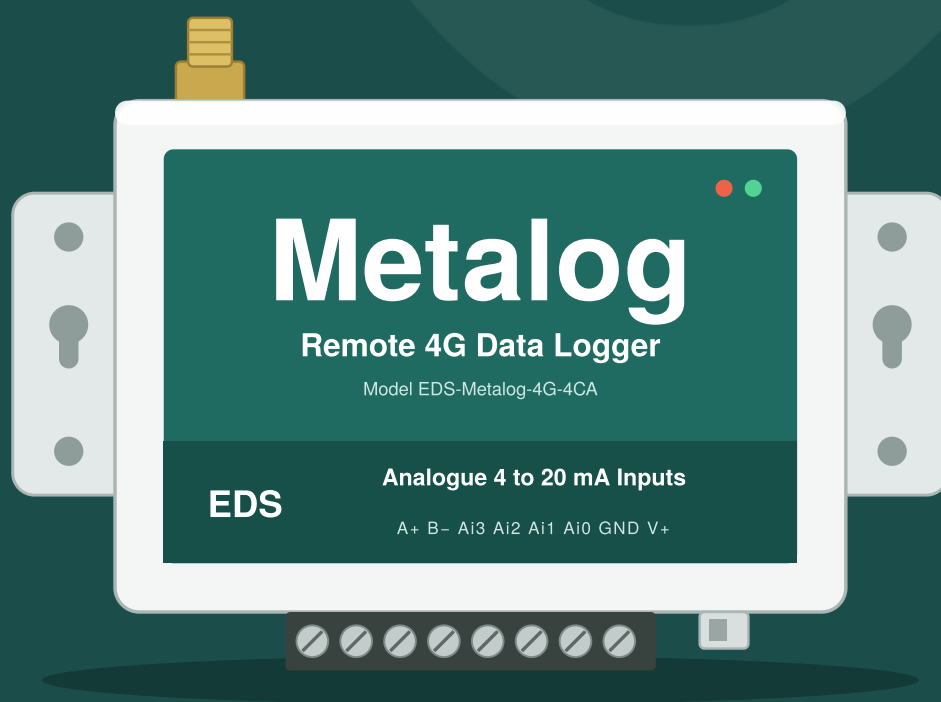


REMOTE TELEMETRY

# Metalog 4G

Remote 4G data logger for analogue and Modbus instruments



## 4 inputs

Analogue 4 to 20 mA

## RS485

Modbus RTU

## 9 to 28 V

DC supply

## 4G

Cellular telemetry

## OVERVIEW

# Telemetry for any 4 to 20 mA or Modbus instrument

Metalog 4G is a compact remote data logger that connects field instruments to the 4G network. Four analogue inputs and an RS485 Modbus port accept level, pressure and flow transmitters, and the 9 to 28 V DC supply range suits common 12 V and 24 V site supplies.

**Four analogue inputs**

Channels Ai0 to Ai3 accept 4 to 20 mA signals from two wire or three wire transmitters.

**RS485 Modbus RTU**

Poll instruments on a shared two wire bus, or use transparent mode to pass serial data straight through.

**Wide supply range**

Runs from 9 to 28 V DC through the terminal block or a standard 5.5 × 2.5 mm DC jack.

**Powers your sensors**

Power the logger from the DC jack and the V+ terminal supplies your sensors at the same voltage.

**4G cellular telemetry**

Built in 4G modem with an SMA female (50 Ω) connector for a direct or external antenna.

**Simple setup on site**

Configure from a laptop over USB. Red and green LEDs show logger status at a glance.

## — Typical applications

**Pump stations**

Wet well level from a submersible level transducer.

**Reservoirs**

Storage level in tanks and reservoirs.

**Network pressure**

Pressure transmitters at critical points in the reticulation.

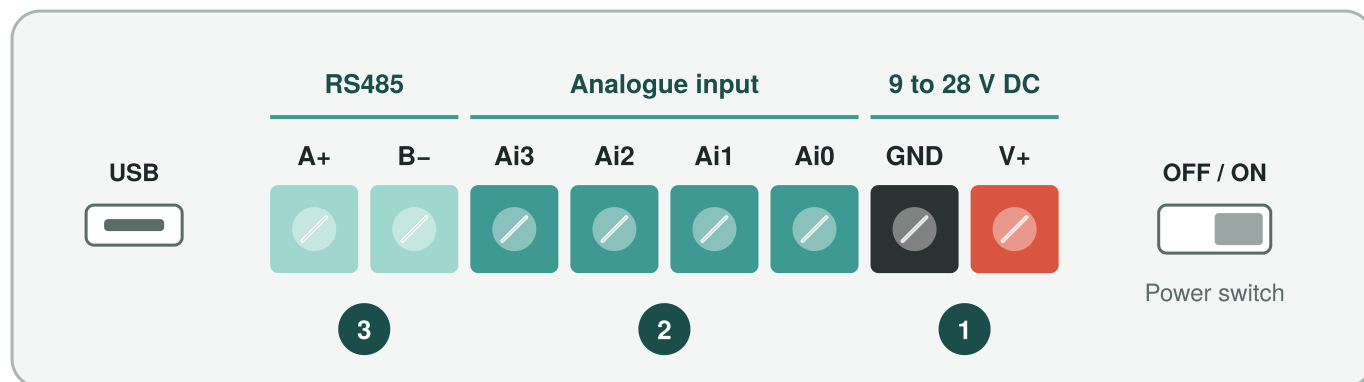
**Flow metering**

Analogue or Modbus outputs from flow meters.

## CONNECTIONS

# One terminal block, every connection

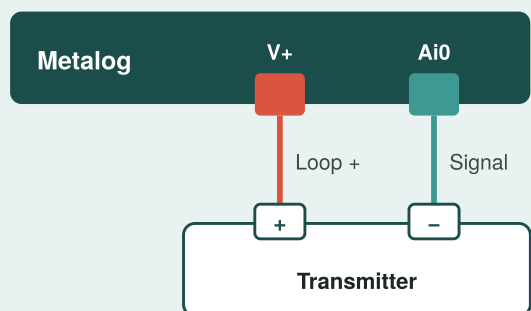
Power, analogue and RS485 wiring all land on a single 8 way terminal block, with the USB configuration port and power switch on the same face.



Terminal block: 8 way, 3.81 mm pitch

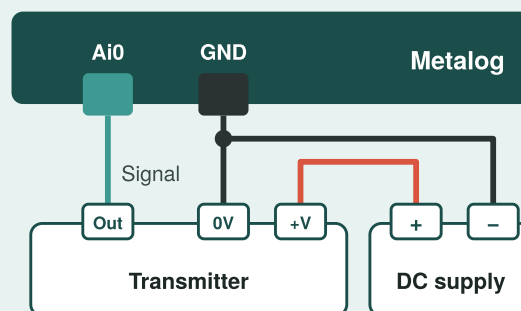
- 1 Power in or out**  
9 to 28 V DC on V+ and GND, or sensor power out when fed from the DC jack.
- 2 Analogue inputs**  
Four 4 to 20 mA channels, Ai0 to Ai3, for two wire or three wire transmitters.
- 3 RS485**  
A+ and B- to the matching terminals of each Modbus RTU device on the bus.

### Two wire transmitter



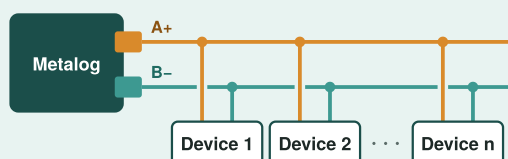
Loop powered from V+. Repeat for Ai1 to Ai3.

### Three wire transmitter



Supply 0 V is common with the logger GND.

### RS485 Modbus bus



Daisy chain on one bus. Give each device a unique address.

### Status indicators

|              |                     |                        |
|--------------|---------------------|------------------------|
| ● <b>ACT</b> | Flash every 600 ms  | Setup mode             |
|              | Flash every 6 s     | Disarmed               |
|              | 2 flashes every 3 s | Armed                  |
| ● <b>SRV</b> | On                  | Starting or sending    |
|              | Off                 | Start or send complete |

## SPECIFICATIONS

# Technical specifications

### POWER

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| <b>Supply voltage</b> | 9 to 28 V DC                                              |
| <b>Power input</b>    | V+ and GND terminals, or 5.5 × 2.5 mm DC jack             |
| <b>Sensor power</b>   | V+ output at supply voltage when powered from the DC jack |

### INPUTS AND COMMUNICATIONS

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| <b>Analogue inputs</b> | 4 channels, Ai0 to Ai3, 4 to 20 mA (default)           |
| <b>Transmitters</b>    | Two wire loop powered or three wire                    |
| <b>Serial port</b>     | RS485 (A+, B-), Modbus RTU or transparent transmission |
| <b>Cellular</b>        | 4G, SMA female antenna connector (50 Ω)                |
| <b>Configuration</b>   | USB connection to a laptop                             |

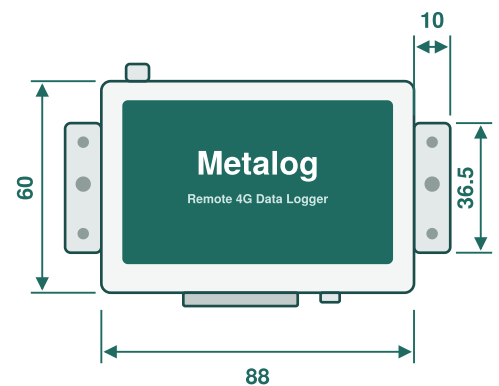
### PHYSICAL

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| <b>Body size</b>   | 88 × 60 × 25 mm (W × H × D)                                |
| <b>Mounting</b>    | Side flanges with keyhole slots for wall or panel mounting |
| <b>Terminals</b>   | 8 way, 3.81 mm pitch                                       |
| <b>SIM card</b>    | Hinged slot on the rear panel                              |
| <b>Indicators</b>  | ACT (red) and SRV (green) LEDs                             |
| <b>Environment</b> | IP58, operating -20 °C to 80 °C                            |

### ORDERING

|              |                    |
|--------------|--------------------|
| <b>Model</b> | EDS-Metalog-4G-4CA |
|--------------|--------------------|

### DIMENSIONS



Front view



Terminal end view. All dimensions in mm.

### Talk to EDS

Our team can match transmitters, antennas and enclosures to your site. Call 1300 721 683.