



DATA LOGGER

MODEL NO: HS-DL PRO



PRODUCT OVERVIEW

- Datalogger with timestamp of records (RTC, Real Time Clock).
- Ethernet, USB, RS232, RS485 communication.
- Galvanic isolation between power supply and interfaces.
- Remote configuration and updates through GSM/GPRS or Ethernet Port.
- Protocols Modbus RTU, ModbusTCP/IP, ICMP, UDP, TCP DHCP, PPP, ARP, IEC60870-5-104:2000.
- 4 analog inputs

GENERAL DESCRIPTION

HS-DL Controller is designed to measure, record and analyze real time signals. Stored data can be sent to remote users through GSM/GPRS modem or Ethernet port.

In the event of loss of communication, the data is safely stored in the internal memory until communication is restored, providing safety and reliability to processes and control systems.

Supports the most common protocols over serial or remote port (such as Modbus TCP/IP, Modbus RTU, IEC60870-5-104: 2000 ...), and a special transmission mode; "transparent mode" for special manufacturer protocol, so almost any device can be connected.

Can include up to 7 simultaneous communication ports, 4 analog inputs, which makes this in the universal controller capable of unify several systems communications in one open and standard protocol (Modbus), greatly simplifying the integration with SCADA / user software.

Some potential applications of the HS-DL are; Consolidation of networks in refurbishment, environment sensors and events logging in control systems, remote electricity consumption monitoring, remote management for isolated installations, energy efficiency systems, integration in BMS control networks.

The communication ports are selectable, allowing you to choose exactly the necessary equipment for each installation.



Safety Instructions

The installation and assembly of electrical equipment must be carried out by electrically qualified persons. The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.



Electrical Connection

The sensors are designed for safety extra-low voltage (SELV) operation. The cable shield shall be connected to the PE during installation.

WARNING: Connecting the supply voltage to the signal lines will damage the device.



CHARACTERISTICS

Consumption:

Power supply	9 - 36 Vdc
Overvoltage protection	>1000V (max. 5 sec)
Consumption	<10 VA

General

CPU	ARM 32 bit
Flash/Storage	2 MB/8 GB Expandable upto(32GB)
Resolution	16/24 bit
Time	RTC Clock

Interfaces

RS232	1 (Up to 15m distance, speed up to 19,2 Kbits/s)
RS485	7 (Up to 1.2 km distance, speed up to 19.2 Kbits/s)
USB	1 (configuration) Type B, ver. 2.0)
Ethernet	1 (RJ45 Twisted pair Ethernet 10/100 Mb, up to 100m.)
Current loop	<30V, 14-20mA, up to 6 km, speed up to 19,2 Kbit/s

Analog inputs

Input current	8 (0/4-20mA, 0-5mA), (0-10V)
Overvoltage	18 V
Max current	0.65 A
Accuracy	0.025 % f.e.
Quantify error	± 2 LSB
Modem	4G

Climate conditions

Working temperature	-25 .. +70 °C
Storage temperature	-40 .. +70 °C
Humidity range	5 – 95%, w/o condensation

Regulatory approvals

EN 55022:2010	EN 61000-4-3:2006/A2:2010
EN 55024:2010	EN 61000-4-3:2006/A1:2008
EN 61000-4-2:2009	EN 61000-4-4:2004/A1:2010
EN 61000-4-3:2006	EN 60950-1:2006/A11:2009
EN 61000-4-4:2004	CE



EN 61000-4-6:2009

EN 60950-1:2006



Protocols

Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, IEC60870-5-104:2000 FTV

LED Indication

Power suply	Yes
Read/write of each port	Yes
Ethernet connection status	Yes

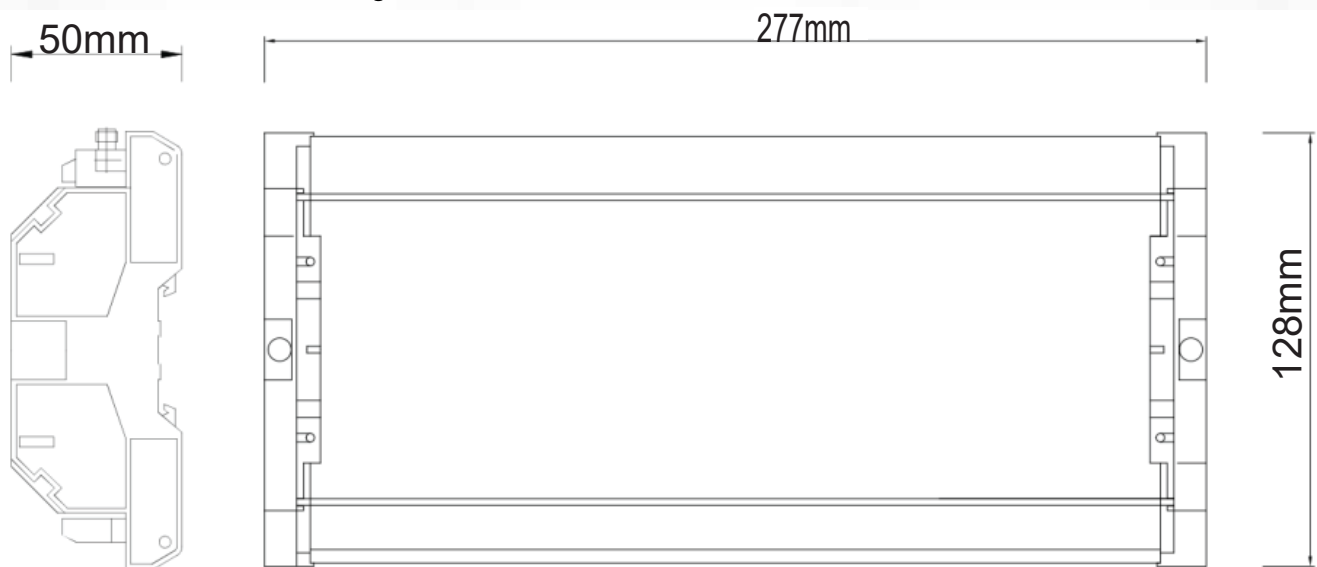
Physical characteristics

Mounting

Dimensions	277x128x50 mm
Weight	400 g
Material	PC/ABS
Protection type	IP20

DIN rail

DIMENSIONS (MM)



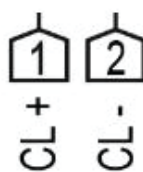
CONNECTION

All the connection terminal blocks are removable, which facilitate the wiring process.

Power



Power suply (w/o polarity)

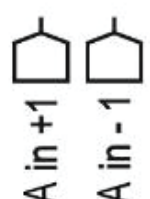


Current loop

RS485



RS485 port



Analog inputs



CAUTIONS

Installation and wiring must be made only by qualified personal.

Remove power supply before connect or disconnect the input/output terminal blocks.

Double check connections and polarities before switch on the power supply to avoid permanent damages.



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