MiniLogger - Intelligent Logging System
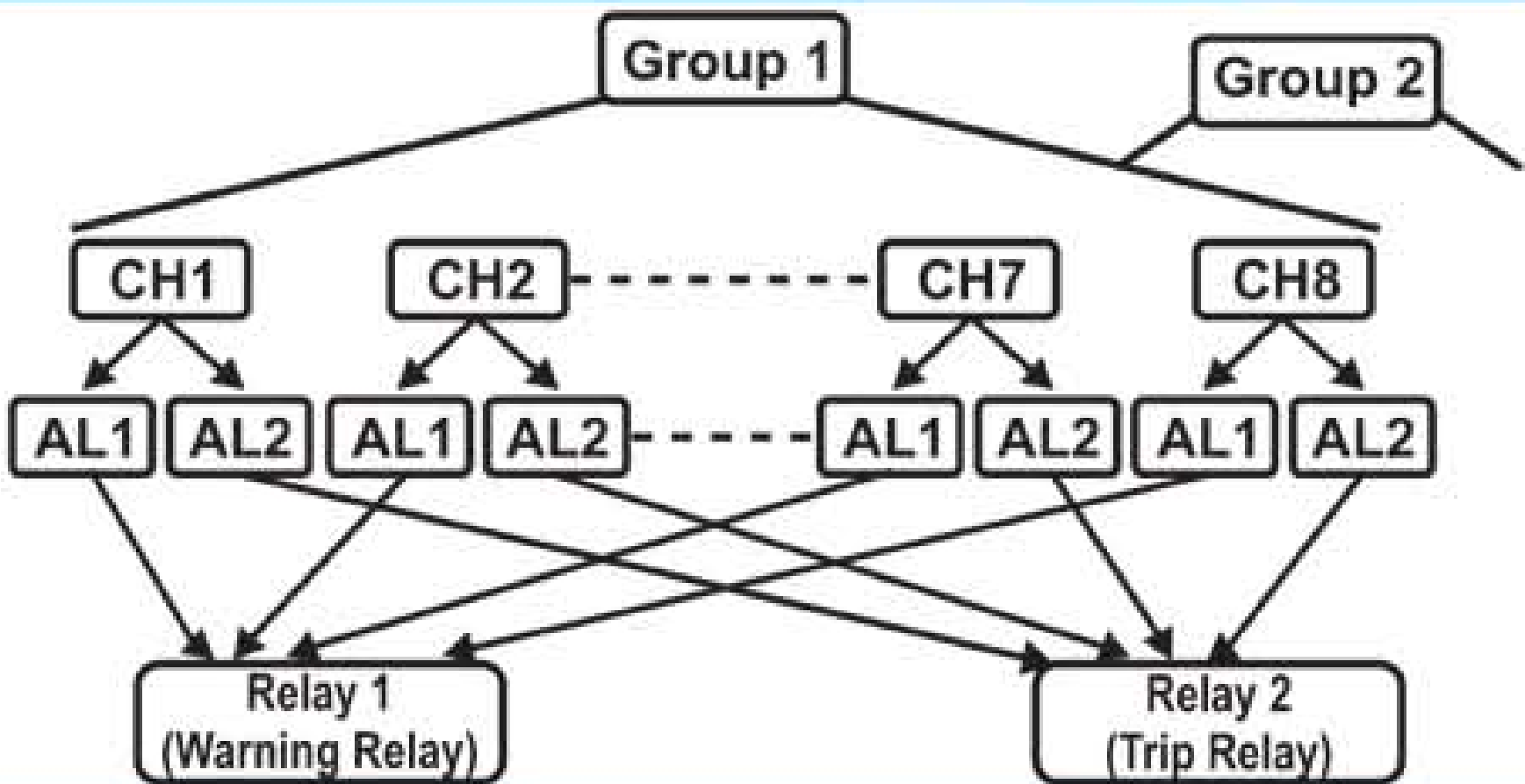

Weatherproof

Flameproof

Features

- MIniLogger is a 16/32 Channel Modbus ID Monitoring System for Transmitters are having RS - 485 Modbus RTU Network Connectivity.

- MiniLogger has one more RS - 485 Modbus RTU Port for Remote Repeater Panel called as IntelliRepeater which will repeat all readings & Alarm conditions.

- Multidrop RS - 485 Port eliminates separate cabling to each Transmitter and Monitor Panel.

- Modbus - RTU Network can be connected in Ring Topology for Redendency.

- Scan time for 16 Transmitter < 5 sec. & for 32 Transmitter < 10 sec.

- Alphanumeric 8 x 2 line Display with Configurable Backlit Option.

- Auto Page Changing Facility available for easy viewing of Data, Relay & Fault Condition of each Transmitter.

- Optional 4 Relays (SPDT) rated "2A / 120VAC, 2A / 24VDC" as Warning / Trip Relay.

- Separate Alarm Setting for each Transmitter with Logic High / Low & Latching Facility.

- Password Protected Menu with Password Changing Facility.

- Easy Handling & Programming with 3 keys on Front Panel.

- Data Logging Capacity upto Six Lakhs Readings for 16 / 32 Transmitters.
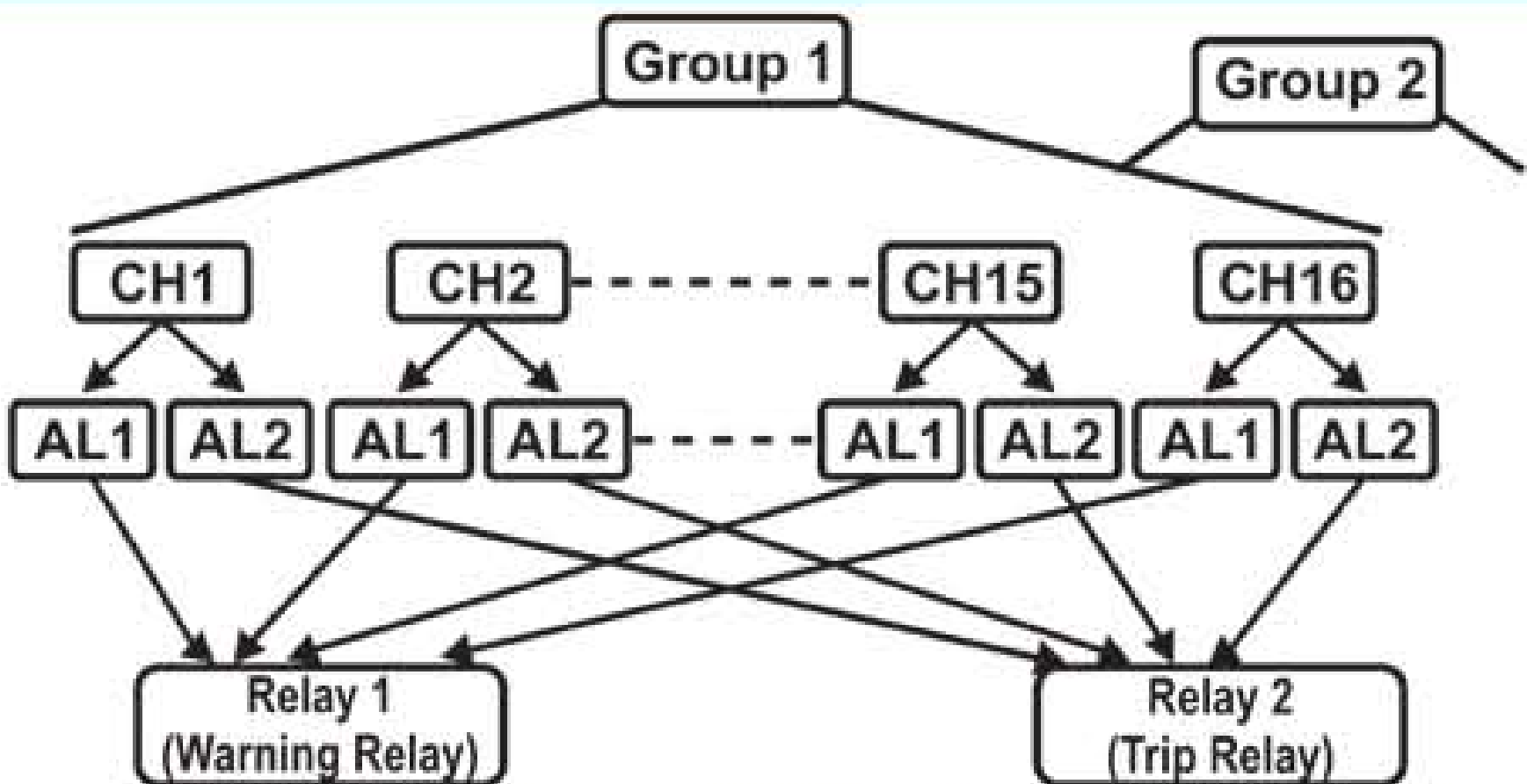
Applications

- Clean Room Monitoring & Validation in Pharmaceutical, Laboratories, Bioscience
- Room Mapping in Pharmaceutical
- Pharmaceutical process validation with graph & scale report in Autoclave
- Healthcare, Hospitals, Shopping Malls
- Breweries, Steel Plants, Gas Turbines,
- Leak detection, Solvent Vapors,
- Personal Monitoring, Compressor Stations,
- Emergency response, Equipment Maintenance
- Pulp & Paper Industry, Fuel Loading Facilities
- Waste Water Treatment Plants,
- LNG / LPG Processing & Storage Facilities
- Refineries & Petrochemical Plants Including Offshore
- Drilling & Plant Shut-downs
- ISO Certification Records, Validation process certifying,
- Chemical & Hazardous area where data monitoring is essential
- Food Processing
- Cold Storage & Chilling Plant
- Building Management & Energy Saving Systems
- Meteorological, Weather Forecast Applications
- Remote Indication location on tank taps as used in liquid level sensing & control

RELAY CONFIGURATION FOR 16 CHANNEL VERSION

Sr. No.	Group Number	Channel in the Group	Relay Asigned
1	1	1 to 8	Relay 1 (Warning Relay) is assigned for AL1 only. Relay 2 (Trip Relay) is assigned for AL2 only.
2	2	9 to 16	Relay 3 (Warning Relay) is assigned for AL1 only. Relay 4 (Trip Relay) is assigned for AL2 only.

RELAY CONFIGURATION FOR 32 CHANNEL VERSION

Sr. No.	Group Number	Channel in the Group	Relay Asigned
1	1	1 to 16	Relay 1 (Warning Relay) assigned for AL1 only. Relay 2 (Trip Relay) assigned for AL2 only.
2	2	17 to 32	Relay 3 (Warning Relay) assigned for AL1 only. Relay 4 (Trip Relay) assigned for AL2 only.

MUST FOR YOUR PROCESS

TECHNICAL SPECIFICATIONS

General

Input	:	16/32 Transmitters having RS-485 Modbus RTU Port.
Display	:	8 x 2 Alphanumeric LCD with Configurable Backlit option.
		4 LEDs to indicate status of MiniLogger.
		4 LEDs to indicate Relay status of MiniLogger in Group Function.
Control Action	:	i) 2 independent Alarm set points for each Transmitter with Latch & Non-Latch Facility.
		ii) User selectable Hysteresis & Logic operation.
Setting	:	By using 3 keys on the front panel for WP & FLP models.
Log Capacity	:	Upto Six Lakhs Readings for 16 / 32 Transmitters.

Performance

Scan Time	:	Less than 5 Sec. for 16 Transmitters having RS-485 Modbus RTU Port.
		Less than 10 Sec. for 32 Transmitters having RS-485 Modbus RTU Port.

Electrical

Supply Voltage	:	18 to 36VDC, Typically 24VDC.
Power Rating	:	Approx 10W.
Transmitter Supply	:	24VDC, 4A for 16 Transmitters.
		24VDC, 7A for 32 Transmitters.
Cable	:	1.5mm^2 2 Core Shielded Cable for 24 VDC Power Supply.
		1.0mm^2 2 Core Twisted Pair Cable for RS-485 Modbus RTU Communication.

Environmental

Storage Temperature	:	-20 to 60°c
Operating Temperature	:	-30 to 70°c
Humidity	:	Below 95% Non-Condensing

Weatherproof Housing

Protection Class	:	IP-65
Cabinet Material	:	Polycarbonate, grey colour
Dimension	:	110 mm (H) x 148 mm (W) x 88 mm (D)
Mounting	:	Dinrail
Weight	:	Approx 500 gm.

Output Signal (Optional)

Relay Output	:	4 SPDT Relays of rating "2A/120VAC, 2A/24VDC". 2 No. Relay for Warning& 2 No. for Trip
RS-485 Port	:	Separate RS-485Modbus RTU Port for IntelliRepeater or PC Communication at a time one possible.

Error Monitoring

i) During Sensor Break / Open in the Transmitter connected to it, MiniLogger shows 'SNSR OPN'.

ii) During Over Range in the Transmitter connected to it, MiniLogger shows 'OVER RNG'.

iii) During Under Range in the Transmitter connected to it, MiniLogger shows 'UNDER RNG'.

iv) If communication fail occurs with any Transmitter then MiniLogger shows 'SLAVE NOT RESP' for that Transmitter.
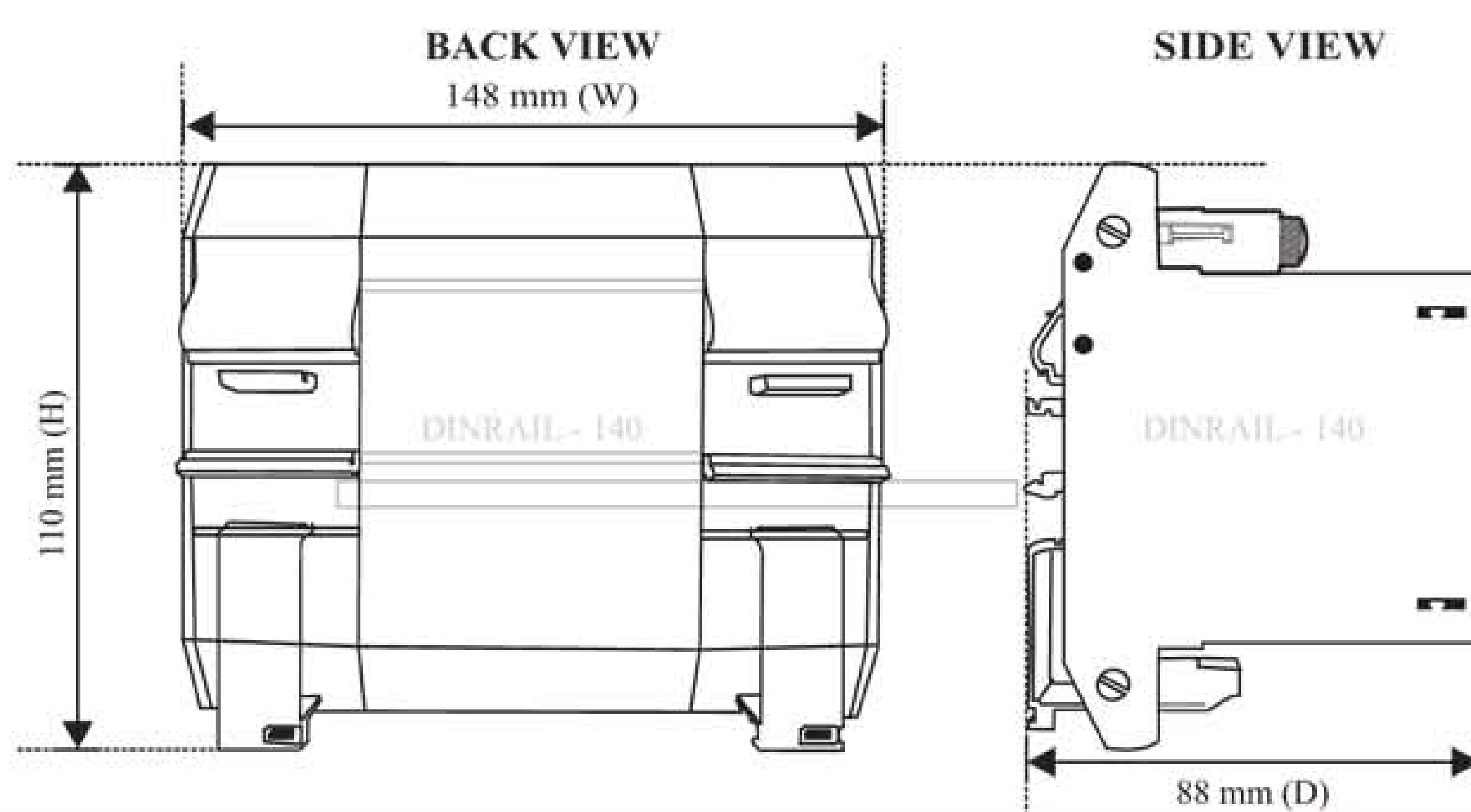
Accessories (Optional)

- CE Certified 24VDC Power Supply is required to power the Modbus enabled Transmitters & MiniLogger.
- FLP / WP Junction Box Enclosure for Inter Connection between Transmitters & MiniLogger for easy maintenance.
- IntelliRepeater Slave Monitor for Remote Display.
- Hooter cum Flasher works on 24VDC or 230VAC.
- LOG Manager PC Software to download data from MiniLogger.
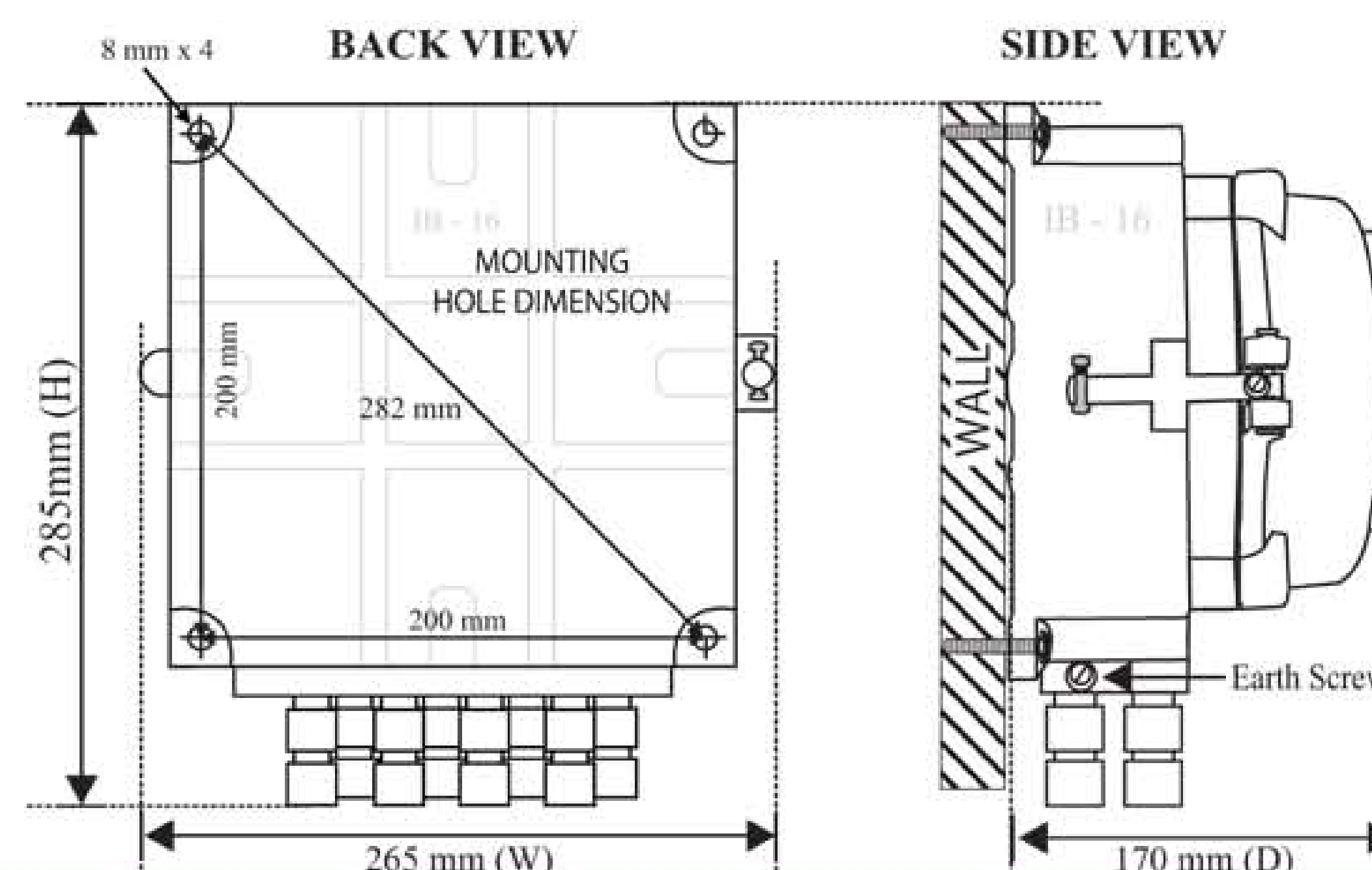- RS-485 to USB OR RS-232 convertor.

Flameproof Housing

Protection Class	:	IP-65 for gas Gr.IIA & IIB, CMRI approved enclosure & CCOE (optional)
Cabinet Material	:	Cast Aluminium alloy, LM-6
Cable Entry	:	3/4" ET-Type for Flameproof
Dimension	:	285 mm (H) x 265 mm (W) x 170 mm (D)
Mounting	:	Wall Mounting / Stand Mounting
Weight	:	Approx 6 Kg.

MOUNTING DESCRIPTION

Weatherproof

Flameproof

ORDERING INFORMATION

ML - 99 — [A] — [B] — [C] — [D] — [E]

A) Model No.
1) 11 (16 Transmitter 1PV)
2) 12 (16 Transmitter 2PV)
3) 13 (16 Transmitter 3PV)
4) 21 (32 Transmitter 1PV)
5) 22 (32 Transmitter 2PV)
6) 23 (32 Transmitter 3PV)

B) Enclosure
1) FLP (Flameproof)
2) WP (Weatherproof)

C) Output
1) None
2) 4 Relay Contact

D) IntelliRepeater
1) None
2) One
3) Two

E) Junction Box for Inter Connection
1) None
2) IB-1000- (Flameproof)
3) IB-1000-(Weatherproof)
* Please specify the quantity

*** Before placing order please Refer the above ordering information or Contact us for assistance.**

DEALERS :