masibus



85XX⁺-W

24 Channel Wireless Receiver/ Datalogger

Monitor. Receiver. Logger. Communication.







The 85XX*-W is wireless receiver cum datalogger. It works with wireless Zigbee protocol, where in it will communicate with Masibus wireless transmitter and receive data from it. If communication breaks between Masibus wireless transmitter and 85XX*-W then Masibus wireless transmitter will log data in its internal memory and when communication is reestablished between both the devices then Masibus wireless transmitter will send all the data to 85XX*-W. Data can be retrieved from 85XX*-W through Citect SCADA software.

85XX*-W is configured using the **mscaN*** software which is very user friendly; the unit can also be edited by front keyboard and display. The unit has numeric and alpha-numeric displays for value and tag display, Alarm status are displayed by discrete LEDs on front fascia.

85XX*-W has one RS-485 port as a standard, whereas, Ethernet Port is in options to enhance the communication capabilities of the unit

The 8 Relay outputs can be freely mapped to any channel set points and configured as Alarm functionality with Fail-Safe or Normal Logic.

The 24 OC outputs can be used as a status output for Alarm condition

Features

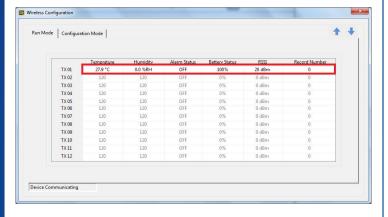
- Wireless communication over Zigbee Protocol
- Supports max 24 nos of Transmitter
- Wireless Data logging and Data backfilling
- Windows based mSCAN+ configuration software
- Modbus RTU over serial and Modnet over Ethernet Protocols
- Compact and Rugged
- Extruded Aluminum Chassis with IP-55 front fascia
- Alpha-Numeric display for programmable tag no/ Engg unit
- 8 Relay Output Module
- 24 Open Collector Outputs Module
- User free mapping of Relay to Channels
- Comprehensive alarm logic
- 1 x RS485 Serial communication port
- 1 x Ethernet port (optional)

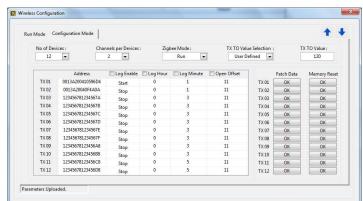
Applications

- Asset Monitoring
- As a Serial/Ethernet RTU
- Backfiling with PC log software
- Pharmaceutical Industry
- Clean Rooms & Warehouses
- Food Industry
- Building Automation
- HVAC Systems
- Cold Storages
- Energy Management
- Vehicle Monitoring

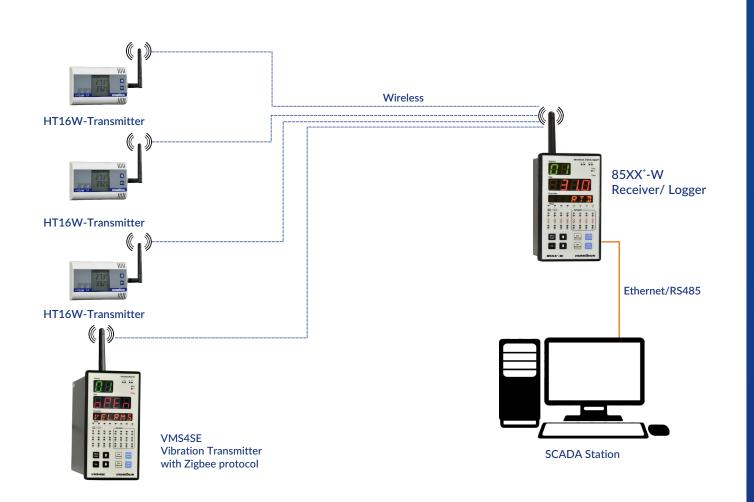
USER-FRIENDLY PROGRAMMING AND MONITORING

m5CAN ⁺ Software	Easy to Monitor			
m5CAN ⁺ Software is used to Monitor	Parameters	Front Display	m5CAN ⁺ Software	
and Configure the Multichannel Receiver	Real-time data	✓	✓	
 Auto device discovery of 85XX*-W over RS485 Port 	Channel No.	✓	✓	
Run Time Data monitoring	Process Value	✓	✓	
Configuration through RS485 and Ethernet Port	 Zero/Span, Input Type 	✓	✓	
 Data Log Retrieval(Periodic and Event) in .xlsx and .pdf file formats 	Alarm Status	✓	✓	
Online Data logging in .xlsx format	 Channel wise Process value 	✓	✓	
Report Generation				
Alarm Setpoints				
RTC				





APPLICATION



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TECHNICAL SPECIFICATION					
Wirel	ess Communication				
Frequency Band	ISM 2.4 GHz				
Protocol	Zigbee				
Transmission Power	63mW (+18dBm)				
Receiver Sensitivity	-101 dBm				
Line of Sight Range	3000 meters(Outdoors)				
Indoor Range	90 meters typically				
Antenna	Dipole pluggable external				
Max.No.of Transmitter support	24 Channel				
Data backfilling					
through wireless	Yes				
D	isplay and Keys				
Channel number	2-Digit, 0.56", Green seven segment LED				
Process Value	4-Digit, 0.56", Red seven segment LED				
Engineering Unit	6-Digit, 0.3", Orange Alphanumeric LED				
Status I FDs	Manual, Run, Flt, Tx/Rx, Relay status				
Status LLDs	Alarm Status per channel				
Keys	2 X 4 for Configuration, Operation and				
.,,	Calibration				
Alama Outrout (Outional)	Output				
Alarm Output (Optional) Relays	O Nice was cond				
Type	8 Nos. per card				
	C- NO or C-NC (Jumper Selectable)				
Rating Connector Type	2A @ 250VAC / 30VDC				
Open Collector (OC) Output (C	25 D-Sub				
OC Outputs					
Type	24 Sinking				
	Sinking				
Rating Connector Type	100mA@30VDC 25 D-Sub				
Connector Type					
Communication Output Rs485 (Standard)					
Interface	2 Wire, EIA RS485				
Protocol	Modbus-RTU Slave				
Baud Rate	9600 or 19200 or 57600				
Ethernet (Optional)	7000 01 17200 01 37000				
Interface	RJ45				
Protocol	Modbus - TCP/ IP(Modnet) Slave				
Speed	10 Mbps				
Data Logging					
Memory	25MB (Periodic), 7MB (Event)				
Logged Data Retrieval	Through mSCAN ⁺ Software				
Min Periodic Log Time	1 min				
No of Records	8000 Records Per Individual Channel				

	Power supply
Voltage	85-265VAC, 50/60 Hz/ 100-295 VDC 18 - 36VDC (optional)
Power Consumption	16VA (Max) [85-265VAC] 8VA (Max) [18-36VDC]

Isolation (Withstanding voltage)

Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute Between primary terminals and grounding terminal: At least 1500 V AC for 1 minute Between grounding terminal and secondary terminals**: At least 1500 V AC for 1 minute Between secondary terminals**: At least 500 V AC for 1 minute Between secondary terminals**: At least 500 V AC for 1 minute Primary terminals indicate power terminals and relay output terminals.

**Secondary terminals indicate 100 simple and Communication OVP.

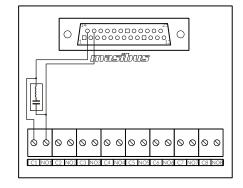
** Secondary terminals indicate I/O signal and Communication O/P.

Insulation resistance: $20M\Omega$ or more @ 500 V DC between power terminals and grounding terminal

Physical				
Size (in mm)	144 (H) X 72 (W) X 165 (D)			
Panel Cutout (in mm)	137 (H) X 68.5 (W)			
Depth behind Panel (in mm)	155 / 203 (with cable connector)			
Mounting	Panel Mount (Standard)			
Weight	1.25 Kg			
Enclosure Material	Extruded Aluminum			
Protection	IP20 (Overall, except terminals), IP55 (Front Facia)			
Environmental				
Operating temperature	-10 to 55 °C			
Storage temperature	0 to 80 °C			
Humidity	20 to 95 % RH non-condensing			
Field Interface Board for Relay Output (Optional)				

Din Rail Mount Field Interfacing Board is designed for terminal panel of Relay Output signal to interface with field signals.		
No of Input Channel	8 Relay Input	
	Scrow type DCD Terminal Plack	

Screw type PCB Terminal Block Input Connection (2.5mm² conductor size) No of Output Channel 8 Relay Output O/P Connection 25 Pin D-Type Plug in Type Connector Size in mm (L X W X H) 90 X 90 X 75 Mounting DIN Rail (35 mm)



Ordering Code								
Model	odel Relay Option		Power Supply		Communication			
85XX*-W								
	Ν	None	U1	85-265 VAC/ 100-295 VDC	1X	1 x RS485		
	RL	Relay	U2	18-36 VDC	1E	1 x RS485 + 1 x RJ45		
	\cap	Open Collector o/p						

OC Open Collector o/p				
Prefab Cables Ordering Code				
Part Code	Description			
RLC-2.5	8 Relay output cable 25 Core 2.5 mtrs long			
OCC-2.5	24 OC output cable 25 Core 2.5 mtrs long			
	Field Interface Board Ordering Code (Extra Cost)			
Part Code	Description			
m-85XX⁺-FIB-RL	8 channel Field Interface Board for Relay output			
Prefab Cables for Field Interface Board Ordering Code (Extra Cost)				
Part Code	Description			
m-RLC-2.5-D25F-D25M	8 Relay output cable 25 Core 2.5 mtrs long with DB25 connector			