



DIN INSTALLATION

ISOLATED INPUT MODULE

— SUPER-THIN, Universal 8 CHANNELS INPUT —

Isolated RS485 FIELD-BUS MODBUS-RTU OUTPUT

MSC890



General Specifications

GS 18A16D01-01EN

UNIVERSAL INPUT MODULE MODBUS RS485 OUTPUT MSC890

Overview

MSC890 is 8 channels isolated universal input module, signal isolated converter, Rail mounting DIN35mm, used for data acquisition for various sensors in industrial control site, standard RS485 MODBUS protocol configurable with DCS, PLC, HMI, SCADA, OP server etc control systems to achieve RS485 field-bus communication.

Feature

- High accuracy, high stability, high performance
- Small size, supper-thin, 98.5x99x17mm, easy installation
- Universal analog, thermocouple input, programmable
- 8 channels input, input-output-power 1500V isolation
- Standard RS485 MODBUS-RTU protocol communication
- Standard 35mm Rail Installation with pluggable terminals
- Independent wide power supply :9-36VDC

Specification

Channel No.	8 channels universal input	Accuracy	+0.2%FS (analog/mv input) 0.2%FS±1.0°C (T.C Input)
● Input type	Thermocouple+ analog input	Sample rate	1 seconds / 8channels
T.C. input	K, S, E, T, R, B, N, J, Wre325, Wre326	Isolation	Input-output: above 1000V
Analog input	4-20ma, 0-10ma, 0-5VDC, 1-5VDC,0-10V	Channels' Isolation	Opto-coupler isolation up to 400VAC
MV input	0-20mv, 0-60mv, 0-100mv	Communication	3KV opto-coupler isolation
● Range		Power	1.5KV isolation
T.C. Input	K (-50 ~ 1300°C),S (-50 ~ 1700°C) T (-200 ~ 350°C), E (0 ~ 800°C) J (0 ~ 1000°C),B (300 ~ 1800°C) N (0 ~ 1300°C), R(-50~1700°C) WRe325,Wre526 (0~2300°C)	Input Independence	4-20ma,0-10ma: 250KΩ 0-5V,1-5V,0-10V:500KΩ;T.C./mV: >20MΩ
RTD input	Pt100 (-200 to 600°C) CU50,CU100(-50~150°C)	Power supply	9-36VDC; 24VDC rated
Analog/mv Input	-999 to +9999(standard)	Power consumption	<1W
● Output	RS485 Communication port	Case material	ABS
Protocol	standard MODBUS-RTU protocol	Cable size used	cable in cross section in 0.5 to 2.5mm2
Baud rate	9600, 19200, 4800...	Installation	DIN35MM, rail mounted
Response rate	10 times/sec., max. 20 times/sec	Indicator	4 digits LCD display
		IP protection	IP20
		Size	107x113.5x60 (mm)
		Working/Storage	40 to 50°C, <85%/ 40 to 80°C



MSC890

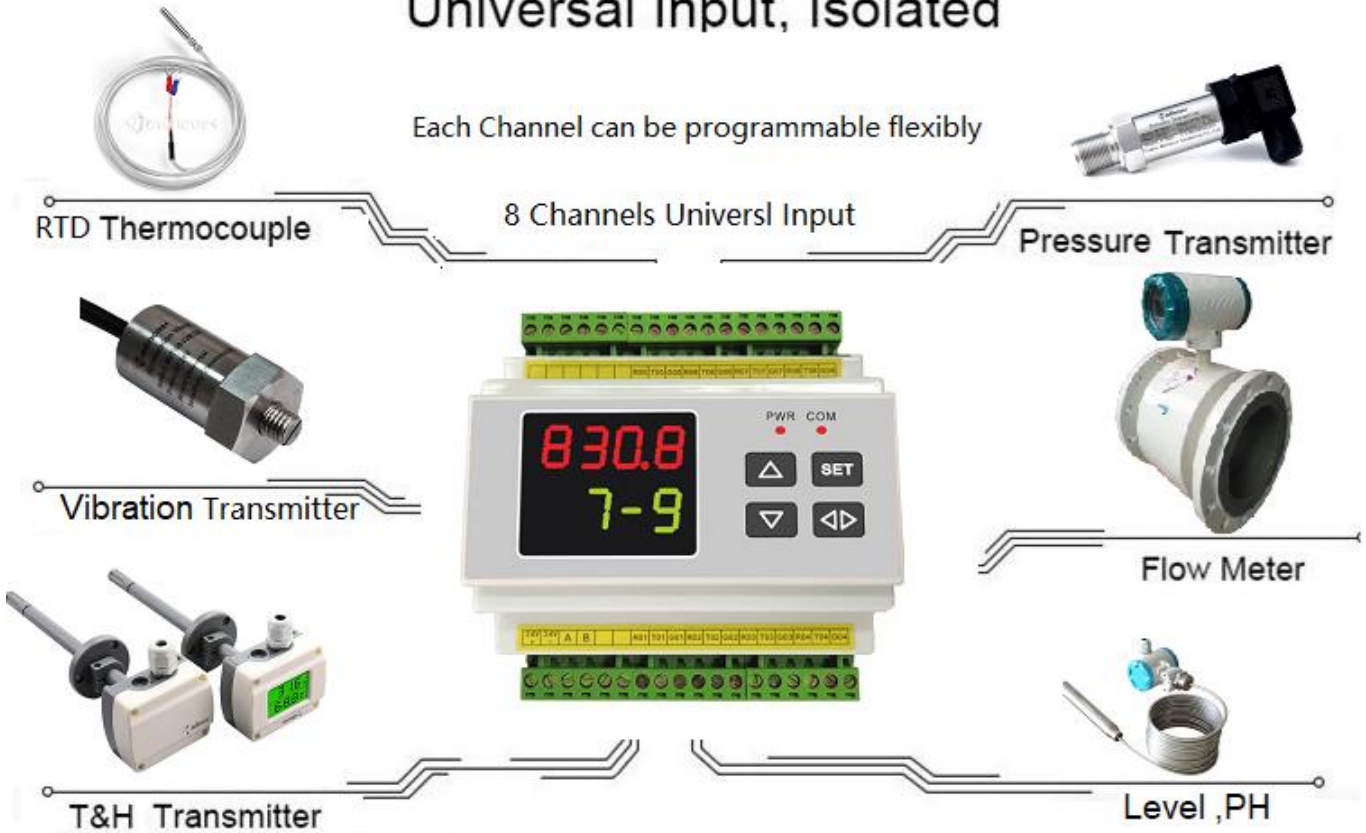
Programmable 8 Channels Input
T.C., RTD, Analog to RS485 Signal Converter

UNIVERSAL DATA ACQUISITION

Provides flexibility and variety in the handing of data collection

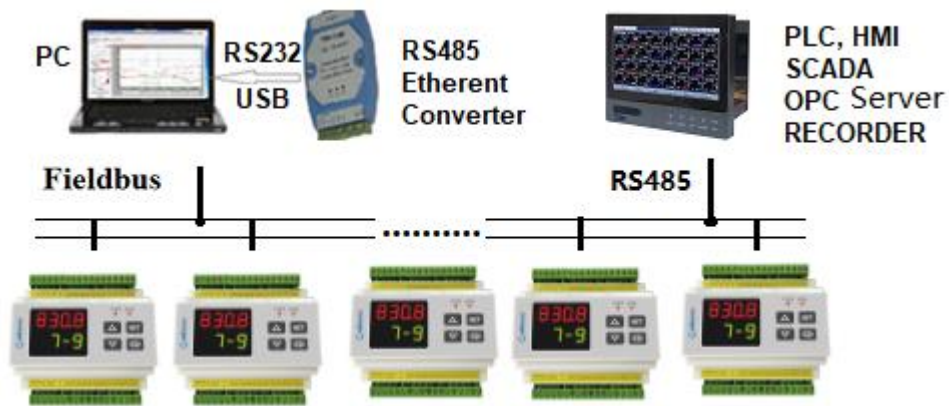
Universal Input, Isolated

Each Channel can be programmable flexibly



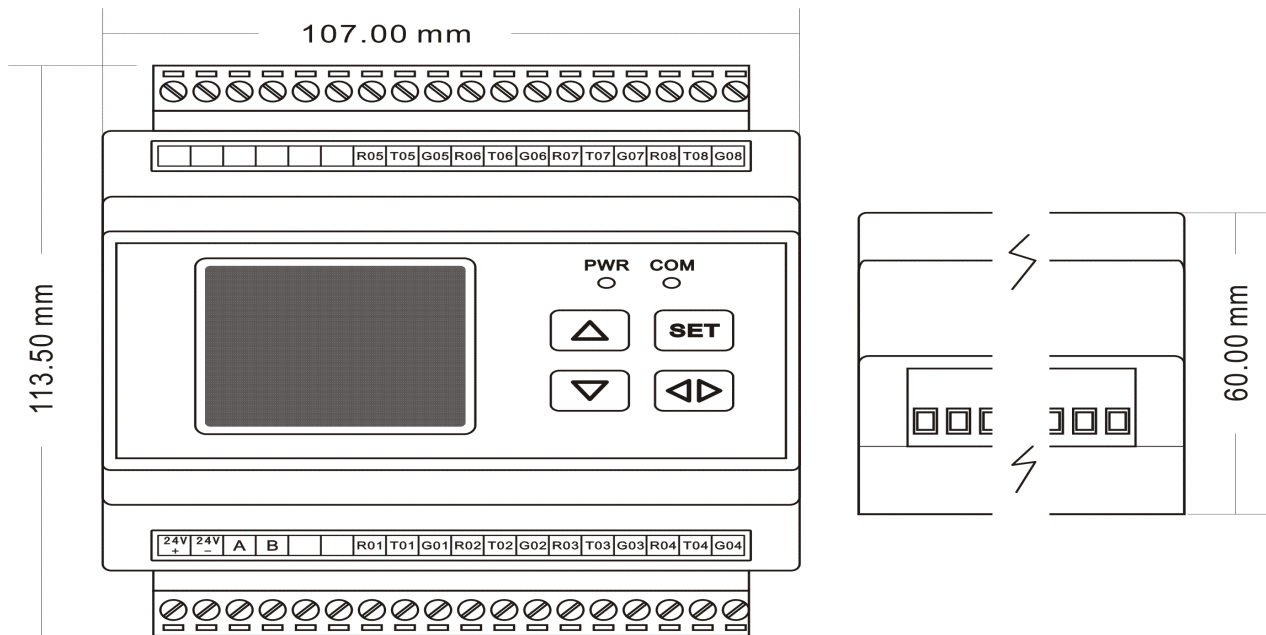
*Each channel is universal input: Thermocouple, Analog, MV signals, programmable, can be configured with various sensor and transmitter in a recorder for different values reading and memory in industrial application.

Configuration with SCADA, PLC, HMI, OP sever by RS485 communication flexibly, standard Modbus protocol



Standard RS485 MODBUS-RTU protocol, configurable with SCADA, DCS, PLC, HMI, OPC server, IOT Cloud for real time reading and monitoring in control room remotely, Baud rate: 9600 defaults,4800,19200; reading and writing functions

Size(mm)



Measuring Range

Input type	Input Type	Range	Accuracy
Analog Input	4-20mA	-999 to 9999	+/-0.2%FS
	0-10mA	-999 to 9999	+/-0.2%FS
	0-5VDC	-999 to 9999	+/-0.2%FS
	1-5VDC	-999 to 9999	+/-0.2%FS
	0-10VDC	-999 to 9999	+/-0.2%FS
Thermocouple Input	T	-200 to 350°C	0.2%FS±1.0°C
	E	0 to 800°C	0.2%FS±1.0°C
	J	0 to 1000°C	0.2%FS±1.0°C
	K	-50 to 1300°C	0.2%FS±1.0°C
	N	-200 to 1300°C	0.2%FS±1.0°C
	R	-50 to 1700°C	0.2%FS±1.0°C
	S	-50 to 1700°C	0.2%FS±1.0°C
	B	300 to 1800°C	0.2%FS±1.0°C
	Wre325	0~2300°C	0.2%FS±1.0°C
Wre526	0~2300°C	0.2%FS±1.0°C	
RTD Input	PT100	-200 to 600°C	+/-0.2%FS
	CU50	-50 to 150°C	+/-0.2%FS
	CU100	-50 to 150°C	+/-0.2%FS
mV Input	0-20mv	-999 to 9999	+/-0.2%FS
	0-60mv	-999 to 9999	+/-0.2%FS
	0-100mv	-999 to 9999	+/-0.2%FS

