DIN INSTALLATION

INPUT MODULE

SUPER-THIN,8 CHNNELS INPUT

HIGH ACCURACY: 0.2%

T.C, RTD, ANALOG INPUT TO RS485 SIGNAL CONVERTER

Model No.: MSC880

General Specifications

GS 19A16D01-01EN

UNIVERSAL INPUT MODULE MODBUS RS485 OUTPUT MSC880

■ Overview

MSC880 is 8 channels isolated input module, signal 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.

MSC880
Programmable 8 Channels Input
T.C., Analog to RS485 Signal Converter

■ Feature

- High accuracy, high stability, high performance,
- **Small size, supper-thin, 100x100x18mm, easy installation**
- **Universal input: analog, thermocouple, mv 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 :12-36VDC

■ Specification

Channel No.	8 channels input	**Accuracy**	+-0.2% (analog input, mV)
● **Input type**	Thermocouple+ +mv+ analog input		0.2%FS±2.0℃ (T.C Input)
T.C. input	K, S, E, T, R, B , N, J, Wre325, Wre326	**Sample rate**	1 seconds / 8channels
Analog input	4-20ma,0-10ma,0-5VDC,1-5VDC,0-10V	**Isolation**	Input-output: above 1000V
mV Input	0-20mv, 0-60mv, 0-100mv	**Channels' Isolation**	Opto-coupler isolation up to 400VAC
● **Range**		**Communication**	3KV opto-coupler isolation
T.C. Input	K (-50 ~ 1300℃),S (-50 ~ 1700℃)	**Power**	1.5KV isolation
	T (-200 ~ 350℃), E (0 ~ 800℃)	**Input Independence**	4-20ma,0-10ma: 250KΩ
	J (0 ~ 1000℃),B (300 ~ 1800℃)		0-5V,1-5V,0-10V:500KΩ;T.C./mV: >20MΩ
	N (0 ~ 1300℃), R(-50~1700℃)	**Power supply**	9-36VDC; 24VDC rated
	WRe325,Wre526（0~2300℃）	**Power consumption**	＜1W
Analog Input	-999 to 9999 (standard)	**Case material**	ABS
mV Input	-999 to 9999 (standard)	**Cable size used**	cable in cross section in 0.5 to 2.5mm2
Decimal point	0-4, can be programmable	**Installation**	DIN35MM, rail mounted
● **Output signal**	RS485 communication port	**Programmer**	4 Digits LED display;
Protocol	standard MODBUS-RTU protocol	**IP protection**	IP20
Baud rate	9600, 19200, 4800…	**Size**	100x100x18(mm)
Response rate	10 times/sec., max. 20 times/sec	**Working/Storage**	40 to 50℃, ＜85%/ 40 to 80℃

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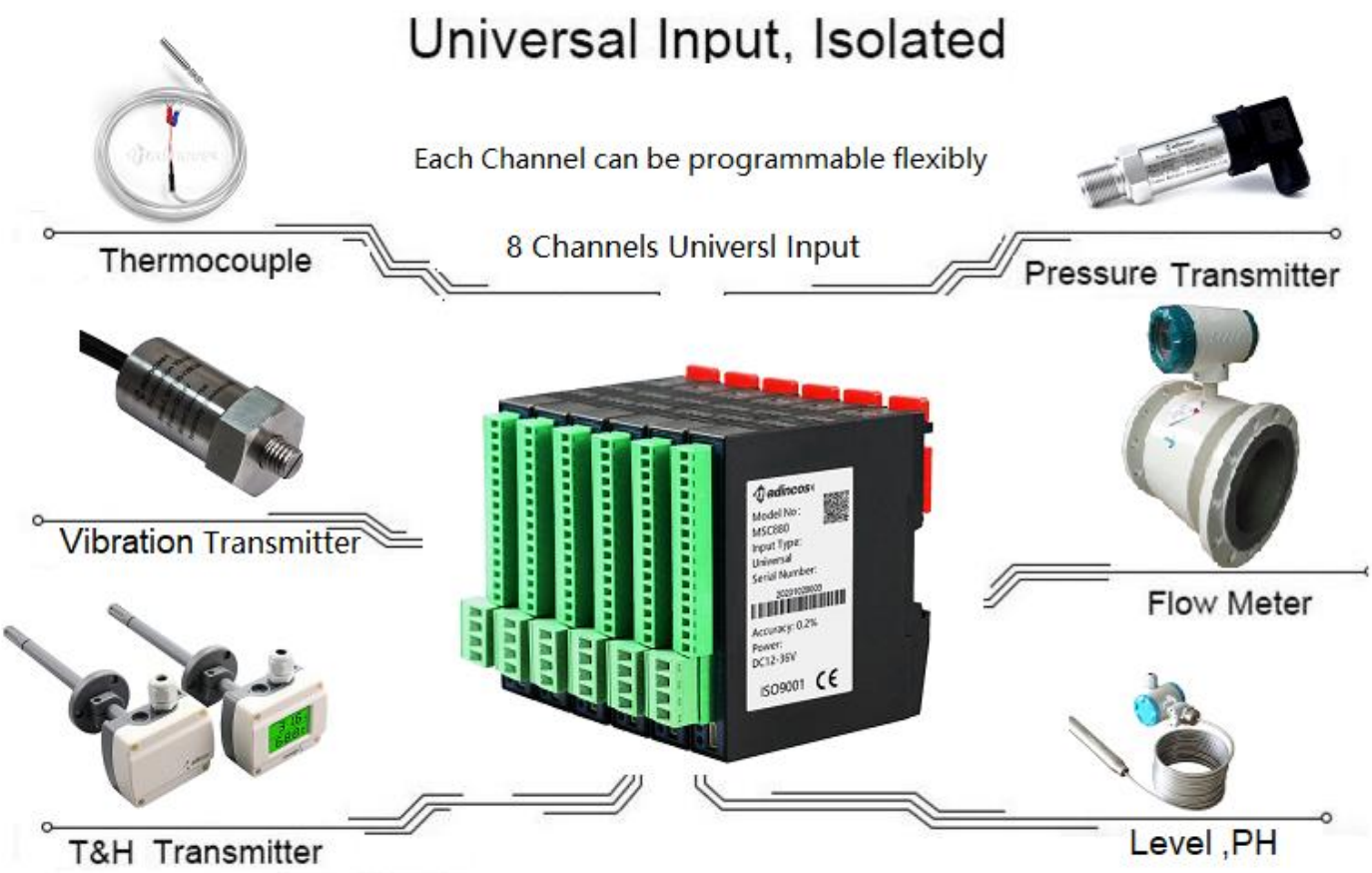
UNIVERSAL DATA ACQUISTION

Provides flexibility and variety in the handing of data collection



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

Parameter Setting by Programmer, User-friendly, easy to parameters setting and configuration	Configuration with SCADA, PLC, HMI, OP sever by RS485 communication flexibly, standard Modbus protocol
	
Parameter Setting by our programmer or PC software User-friendly, easy to setting and configuration on the input, decimal, range, address for various parameters setting local. Also support PC software for configuration and setting	**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 default,4800,19200; reading and writing functions**

■ Size (mm)

DIN Rail mounted, Super thin size for more installation space saved, size: mm

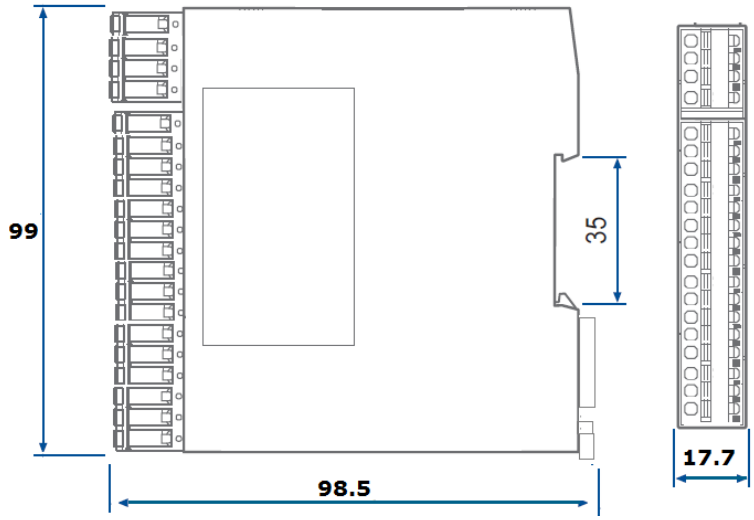
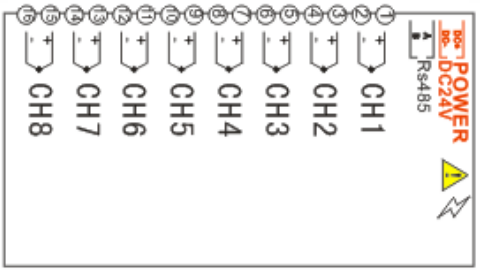


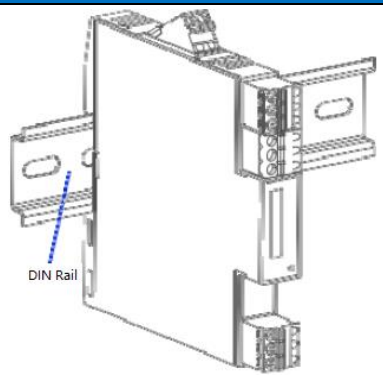
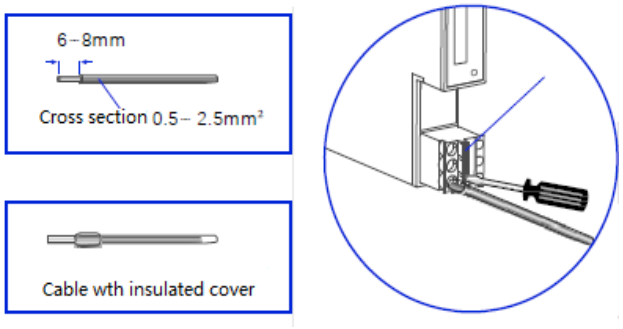
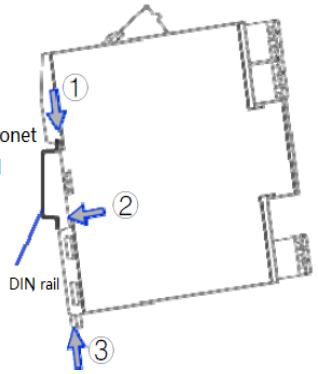
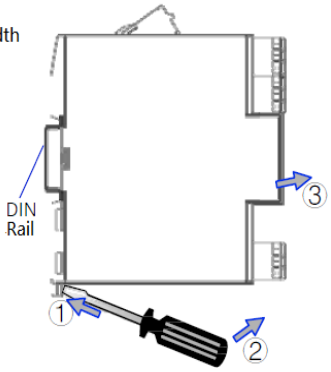
Diagram: 8 Channels 2 Wire Thermocouple Sensor, Analog Transmitter, mv Input, Standard MODBUS RS485 Output



■ 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	T	-200 to 350℃	0.2%FS±2.0℃
	E	0 to 800℃	0.2%FS±2.0℃
	J	0 to 1000℃	0.2%FS±2.0℃
	K	-50 to 1300℃	0.2%FS±2.0℃
	N	-200 to 1300℃	0.2%FS±2.0℃
	R	-50 to 1700℃	0.2%FS±2.0℃
	S	-50 to 1700℃	0.2%FS±2.0℃
	B	300 to 1800℃	0.2%FS±2.0℃
	Wre325	0~2300℃	0.2%FS±2.0℃
	Wre526	0~2300℃	0.2%FS±2.0℃
mV Input	0-20mv, 0-60mv, 0-100mv	-999 to 9999;	+-0.2%FS

Installation

DIN Rail installation	Cable
	
Installation	**Disassembly**
1. Please insert the upper of installation bayonet of the isolator on DIN35MM rail 2.Please push the isolator toward the bayonet so that the isolator is close to the DIN rail 3. Please press the installation into the locking part to make the isolator locked into the rail 	1. Please use a suitable screwdriver (width 6mm) to insert the isolator's mounting locking 2. Please put the screwdrier handle upwards to make the installation locking of the isolator from DIN rail. 3. Please take out the islator from DIN rail 

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