

Four-wire  
Signal Conditioners

Two-wire  
Signal Conditioners

Power Transducers

Indicators

Limit Alarms

Gateway,  
Remote I/O

Paperless Recording  
System

PC Recorder

Electronic Actuators  
& Position Sensors

Lightning Surge  
Protectors

Four-wire  
Product Selection Guide

Mini-M Series

Mini-MW Series

M6 Series

M5-UNIT Series

W5-UNIT Series

M3-UNIT Series

M3S-UNIT Series

Pico-M Series

MX-UNIT Series

M-UNIT Series

W-UNIT Series

K-UNIT Series

F-UNIT Series

H-UNIT Series

10-RACK Series

18-RACK Series

38-RACK Series

Four-wire Signal Conditioners

Rack-mounted

**M2 Series Signal Conditioners are designed to accept a largest range of process signal inputs and provide a standard and non-standard DC output.**

- M2 use a compact-size, plug-in socket base for quick installation or replacement of modules without disturbing wiring.
- 2000V AC isolation
- Standard DIN rail or surface mounting
- Base socket included with modules
- Selectable 100–240V AC/24V DC power input
- Fixed range or PC programmable models selectable
- CE marking and UL/C-UL Class 1 Div 2 approval (selected models)



### SPECIFICATIONS

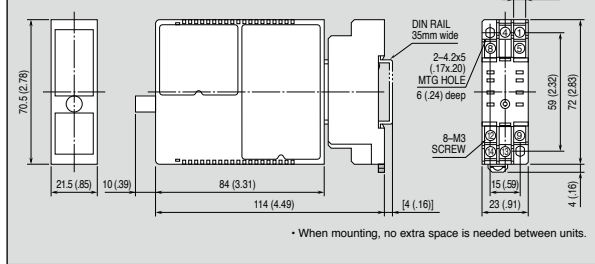
<b>Construction</b>	Plug-in
<b>Connection</b>	M3 screw terminals (torque 0.8 N-m)
<b>Housing material</b>	Flame-resistant resin (black)
<b>Isolation</b>	Input to output to power
<b>Operating temperature</b>	-5 to +55°C (23 to 131°F)
<b>Mounting</b>	Surface or DIN rail
<b>Dielectric strength</b>	2000V AC @1 minute (input to output to power to ground)
<b>AC power input</b>	Operational voltage range 85 – 264V (90 – 264V for UL)
<b>DC power input</b>	Operational voltage range for 24V ±10%, 11 – 27V, or 85 – 150V (110V ±10% for UL)

### DC Inputs, Isolators

Model	Function	Page
M2SN	Input Loop Powered Isolator	P.10
M2XU	Universal Transmitter (PC programmable)	P.10
M2XUM	Universal Transmitter (PC programmable; Modbus-RTU communication)	P.11
M2XV2	Signal Transmitter (PC programmable)	P.11
M2LV	Signal Transmitter (field- and PC-configurable)	P.12
M2VS	Signal Transmitter	P.12
M2VF	Signal Transmitter (high speed response)	P.12
M2VF2	Signal Transmitter (ultra-high speed response 30µsec.)	P.13
M2VV	Voltage Divider	P.13

### EXTERNAL DIMENSIONS

#### 8-pin Mounted Modules



### Temperature & Sensor Inputs

Model	Function	Page
M2XT2	Thermocouple Transmitter (PC programmable)	P.13
M2TS	Thermocouple Transmitter	P.14
M2XR2	RTD Transmitter (PC programmable)	P.14
M2LR	RTD Transmitter (field- and PC-configurable)	P.14
M2RS	RTD Transmitter	P.15
M2RR	Resistance/Resistance Converter	P.15
M2XM2	Potentiometer Transmitter (PC programmable)	P.15
M2LPM	Potentiometer Transmitter (field- and PC-configurable)	P.16
M2MS	Potentiometer Transmitter	P.16
M2LCS	Strain Gauge Transmitter	P.16
M2TG	Tachogenerator Transmitter	P.17
M2AC	AC Transmitter	P.17



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**Mini-MW Series**

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M5-UNIT Series

W5-UNIT Series

M3-UNIT Series

M3S-UNIT Series

Pico-M Series

MX-UNIT Series

M-UNIT Series

W-UNIT Series

K-UNIT Series

F-UNIT Series

H-UNIT Series

10-RACK Series

18-RACK Series

38-RACK Series

Four-wire Signal Conditioners

Rack-mounted

The W2 Series Signal Splitters provide two isolated outputs of independent ranges.

- W2 use a compact-size, plug-in socket base for quick installation or replacement of modules without disturbing wiring.
- 2000V AC isolation
- Standard DIN rail or surface mounting
- Base socket included with modules
- Selectable 100–240V AC/24V DC power input
- Fixed range or PC programmable models selectable
- CE marking and UL/C-UL Class 1 Div 2 approval (selected models)



### ► SPECIFICATIONS

<b>Construction</b>	Plug-in
<b>Connection</b>	M3 screw terminals (torque 0.8 N-m)
<b>Housing material</b>	Flame-resistant resin (black)
<b>Isolation</b>	Input to output 1 to output 2 to power
<b>Operating temperature</b>	-5 to +55°C (23 to 131°F)
<b>Mounting</b>	Surface or DIN rail
<b>Dielectric strength</b>	2000V AC @1 minute (input to output 1 to output 2 to power to ground)
<b>AC power input</b>	Operational voltage range 85 – 264V (90 – 264V for UL)
<b>DC power input</b>	Operational voltage range for 24V ±10%, 11 – 27V, or 85 – 150V (110V ±10% for UL)

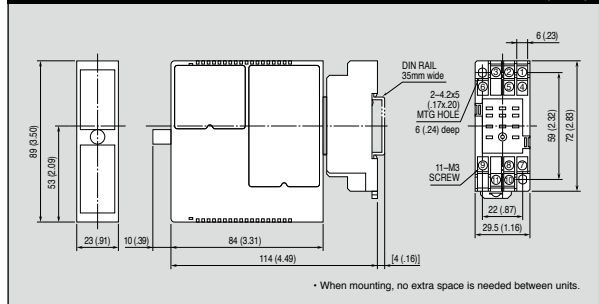
### ■ DC Inputs

Model	Function	Page
W2VS	Signal Transmitter	P.31
W2VF	Signal Transmitter (high speed response)	P.31

### ■ Temperature & Sensor Inputs

Model	Function	Page
W2TS	Thermocouple Transmitter	P.31
W2XR	RTD Transmitter (PC programmable)	P.32
W2RS	RTD Transmitter	P.32
W2XM	Potentiometer Transmitter (PC programmable)	P.32
W2MS	Potentiometer Transmitter	P.33
W2TG	Tachogenerator Transmitter	P.33
W2AC	AC Transmitter	P.33
W2PA	PT Transmitter (average)	P.34
W2PE	PT Transmitter (RMS)	P.34
W2CA	CT Transmitter (average)	P.34
W2CE	CT Transmitter (RMS)	P.34

### ► EXTERNAL DIMENSIONS



### ■ DC Supplies

Model	Function	Page
W2DYS	Current Loop Supply	P.34
W2DY	Current Loop Supply	P.35
W2DNY	Current Loop Supply (with square root extractor)	P.35
W2DYH	Current Loop Supply (applicable to HART signal)	P.35

### ■ Pneumatic Transducers

Model	Function	Page
W2PV	P/I Transducer	P.36

### ■ Frequency I/O

Model	Function	Page
W2SP	Low Frequency Transmitter (50 Hz minimum)	P.36
W2AP	DC/Frequency Converter	P.36
W2PP	Pulse Isolator	P.37