

Model 4MS

Split AC Current Transducer

Made in the USA

- Input 10A to 1500A
- Output 0-20mA or 4-20mA
- Accuracy class 1.0
- Windows from 0.5" to 4"
- Only Two Wires Required (the Loop)



The Model 4MS is an AC current transducer with an internal 0-20mADC or 4-20mADC loop transmitter that requires only two wires (the loop). The CT uses proportional conversion to obtain a true RMS DC signal from a pure sine wave. The output current is a standard process control 0-20mA or 4-20mA (select one when ordering). The output requires an external resistor between 200 to 1000Ω as a load resistor for the loop.

Specifications

<i>Input Current</i>	1500AC current max, sine wave, single phase 50/60/400Hz
<i>Voltage Rating</i>	600VAC, tested with 2.5kVDC for 60 seconds
<i>Output</i>	0-20mADC or 4-20mADC
<i>Accuracy</i>	Set to <1% Mid-Scale
<i>Response Time</i>	Approximately 250 milliseconds from 10% to 90% of amplitude for CT's over 100A
<i>Bandwidth</i>	50Hz to 400Hz
<i>Loop Voltage Source</i>	10 to 24VDC normally provided by loop race
<i>Temperature Range</i>	-20°C to 55°C
<i>Rating Factor</i>	1X to 55°C
<i>Construction</i>	Poly Carbonate, black
<i>Lead Wires</i>	8ft. twisted black and red, 22AWG per UL1015

MOST POPULAR SIZES

Part Number	Full Scale Input Current	Output	Window Opening
4MS-10A:0-20-2.0"	10A	0 TO 20mA	2.0"
4MS-10A:4-20-2.0"	10A	4 TO 20mA	2.0"
4MS-50A:4-20-1.25"	50A	4 TO 20mA	1.25"
4MS-125A:4-20mA-1.25"	125A	4 TO 20mA	1.25"
4MS-150A:4-20mA-1.25"	150A	4 TO 20mA	1.25"
4MS-300A:0-20mA-1.0"	300A	0 TO 20mA	1.0"
4MS-400A:4-20mA-2.0"	400A	4 TO 20mA	2.0"
4MS-500A:4-20mA-2.0"	500A	4 TO 20mA	2.0"
4MS-600A:0-20mA-2.0"	600A	0 TO 20mA	2.0"
4MS-800A:4-20mA-2.0"	800A	4 TO 20mA	2.0"
4MS-1000A:4-20mA-2.0"	1000A	4 TO 20mA	2.0"
4MS-1500A:4-20mA-2.0"	1500A	4 TO 20mA	2.0"

HOW TO ORDER

4MS-XXX-YY-WxL

- XXX=Input
- YY=Output
- W=Width of Window
- L=Length of Window

Example: 4MS-10A:4-20mA-2.0x2.0

4MS Installation/Wiring Method

Loop resistance for proper operation and accuracy must be the sum of the Instrument burden resistance and an external resistor.

Power Supply Range (VDC)	Instrument Resistance + External Resistance
8 – 10	200Ω – 500Ω
12 – 14	200Ω – 1000Ω
15	500Ω – 1200Ω
18 – 24	1000Ω – 1200Ω

