

MICRO-P MIGHTY-1

Digital Process Indicators

Price List & Ordering Guide

Effective March 1, 2008

GENERAL ORDERING INFORMATION:

Specify **Meter Color & Digit Size**, **Meter Power** and a **Signal Conditioner** from the list below. Specify **Analog Output**, **Setpoint Output** and **Digital Interface** if needed. These meters are shipped with a standard configuration and range shown below for each signal conditioner and output option type. All information for making changes is covered in the supplied Owners Manual. For other scalings or configurations, add the **SC** (Special Configuration) option.

Ordering Example:	MR	0	H	R	2	MVI2	-	SC
	a	b	c	d	e	f		g

a	METER COLOR & DIGIT SIZE	\$List
	MR Micro-P with 0.56" Red Led's	105
	MG Micro-P with 0.56" Green Led's	105
	M1R Mighty-1 with 1" Red Led's	295

For extended version features, add "E" to the above 40 part numbers i.e. MRE, MGE or M1RE. Does not apply to temperature.

b	METER POWER	
	0 95 to 240Vac & 95 to 300Vdc	50
	1 10 to 34Vac & 10 to 48Vdc	80

c	ANALOG OUTPUT	
	H None	N/C
	J 0 to 10Vdc	90
	K 0 to 20mAdc (4/20mA)	90

d	SETPOINT OUTPUT	
	H None	N/C
	R Two 8A Form C relays	80
	C Two solid state relays	55

e	DIGITAL INTERFACE	
	H None	N/C
	2 RS-232	60
	4 RS-485	80
	5 Modbus (ASCII RTU)	90

f	SIGNAL CONDITIONERS	
	DC VOLTAGE	
	MVI 1 200.00mV = 200.00	65
	2 2.0000V = 2.0000	65
	3 20.000V = 20.000	65
	4 200.00V = 200.00	65
	5 660.0V = 660.0	65
	DC CURRENT	
	MCI 1 2.0000mA = 2.0000	65
	2 20.000mA = 20.000	65
	3 200.00mA = 200.00	65
	4 5.000A = 5.000	65

AC TRUE RMS VOLTAGE		
MTV 1	200.00mV = 200.00	100
2	2.0000V = 2.0000	100
3	20.000V = 20.000	100
4	200.00V = 200.00	100
5	660.0V = 660.0	100

AC TRUE RMS CURRENT		
MTI 1	2.0000mA = 2.0000	100
2	20.000mA = 20.000	100
3	200.00mA = 200.00	100
4	5.000A = 5.000	100

Note: Range 4 may be used with an external C.T.

RTD TEMPERATURE		
M385C	-202 to 850°C	65
M385F	-331 to 1562°F	65
M392C	-202 to 850°C	65
M392F	-331 to 1562°F	65

THERMOCOUPLE TEMPERATURE		
MJC	-210 to 760°C	65
MJF	-347 to 1400°F	65
MKC	-244 to 1372°C	65
MKF	-408 to 2501°F	65
MNC	-244 to 1372°C	65
MNF	-408 to 2501°F	65
MTC	-257 to 400°C	65
MTF	-430 to 752°F	65
MEC	-270 to 1000°C	65
MEF	-450 to 1830°F	65
MSC	-46 to 1768°C	65
MSF	-51 to 3214°F	65
MRC	-45 to 1768°C	65
MRF	-49 to 3213°F	65

PROCESS		
E	4/20mA = 20,000	65

STRAIN GAUGE, POTENTIOMETER		
SG	0/200mV = 20,000	65

LOAD CELL, MICROVOLTMETER		
LC	0/20mV = 20,000	120

g	SPECIAL CONFIGURATION	
	SC Special Configuration	25

Specify the min. signal input and displayed reading, max. signal input and displayed reading, decimal point and 5, 10 or 24V excitation output. This option is included at no charge for PROCESS, STRAIN GAUGE, and LOAD CELL.

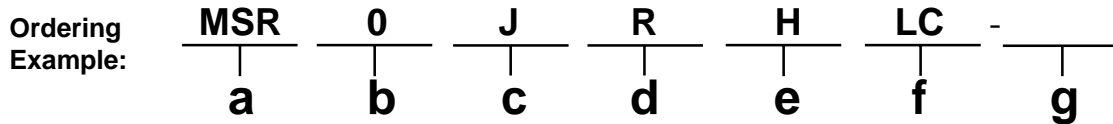
MICRO-S MIGHTY-1S

Digital Scale and Weight Indicators

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Specify **Meter Color & Digit Size**, **Meter Power** and a **Signal Conditioner** from the list below. Specify **Analog Output**, **Setpoint Output** and **Digital Interface** if needed. These meters are shipped with a standard configuration and range shown below for each signal conditioner and output option type. All information for making changes is covered in the supplied Owners Manual. For other scalings or configurations, add the **SC** (Special Configuration) option.



a METER COLOR & DIGIT SIZE \$List

MSR	Micro-S with 0.56" Red Led's	140
MSG	Micro-S with 0.56" Green Led's	140
M1SR	Mighty-1S with 1" Red Led's	325

For extended version features, add "E" to the above 40
part numbers i.e. MSRE, MSGE, M1SRE or M4SRE.

b METER POWER

0	95 to 240Vac & 95 to 300Vdc	50
1	10 to 34Vac & 10 to 48Vdc	80

c ANALOG OUTPUT

H	None	N/C
J	0 to 10Vdc	90
K	0 to 20mAdc (4/20mA)	90

d SETPOINT OUTPUT OPTION (Not required)

H	None	N/C
R	Dual 8A Form C Relays	80
C	Dual solid state relays	55

e DIGITAL INTERFACE

H	None	N/C
2	RS-232	60
4	RS-485	80

f SIGNAL CONDITIONERS \$List

DC VOLTAGE

MVI 1	200.00mV = 200.00	65
2	2.0000V = 2.0000	65
3	20.000V = 20.000	65
4	200.00V = 200.00	65
5	660.0V = 660.0	65

DC CURRENT

MCI 1	2.0000mA = 2.0000	65
2	20.000mA = 20.000	65
3	200.00mA = 200.00	65
4	5.000A = 5.000	65

PROCESS

E	4/20mA = 20,000	65
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STRAIN GAUGE, POTENTIOMETER

SG	0/200mV = 20,000	65
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LOAD CELL, MICROVOLTMETER

LC	0/20mV = 20,000	120
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g SPECIAL CONFIGURATION

SC	Special Configuration	25
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Specify the min. signal input and displayed reading, max. signal input and displayed reading, decimal point and 5, 10 or 24V excitation output. This option is included at no charge for PROCESS, STRAIN GAUGE, and LOAD CELL.

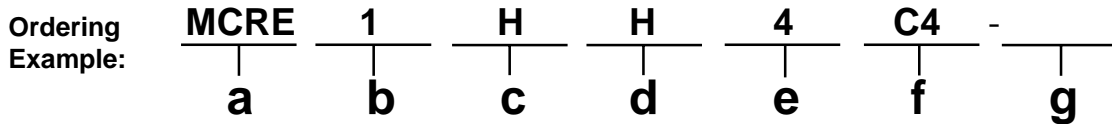
MICRO-C MIGHTY-1C

Digital Counters & Timers

Price List & Ordering Guide
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Specify **Meter Color & Digit Size**, **Meter Power** and a **Signal Conditioner** from the list below. Specify **Analog Output**, **Setpoint Output** and **Digital Interface** if needed. These meters are shipped with a standard configuration and range shown below for each signal conditioner and output option type. All information for making changes is covered in the supplied Owners Manual. For other scalings or configurations, add the **SC** (Special Configuration) option.



a METER COLOR & DIGIT SIZE \$List

MCR	Micro-C Standard with 0.56" Red LED's	115
MCG	Micro-C Standard with 0.56" Green LED's	115
M1CR	Mighty-1C Standard with 1" Red LED's	305

For extended version features, add "E" to the above 40
part numbers i.e. MCRE, MCGE, M1CRE or M4CRE. Price includes configuration and scaling to your requirements.

b METER POWER

0	95 to 240Vac & 95 to 300Vdc	50
1	10 to 34Vac & 10 to 48Vdc	80

c ANALOG OR BATCH RELAY OUTPUT

H	None	N/C
J	0 to 10Vdc	90
K	0 to 20mAdc (4/20mA)	90

d SETPOINT OUTPUT OPTION (Not required)

H	None	N/C
R	Dual 8A Form C Relays	80
C	Dual solid state relays	55

e DIGITAL INTERFACE

H	None	N/C
2	RS-232	60
4	RS-485	80
5	Modbus (ASCII RTU)	90

f SIGNAL CONDITIONERS

REMOTE DISPLAY

RD	No card required	N/C
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Requires a basic counter, an RS232, RS485 or Modbus digital interface card and no signal conditioner.

Signal Conditioners cont.

ANALOG (V/F) INPUT (RATE):

A	1	"A only" 4/20 mA = 20,000	65
	2	"A only" 0 to 1 mA = 10,000	65
	3	"A only" 10 V = 10,000	65

Basic counter:

Rate (frequency & speed) or square root of rate.

Extended counter:

Also includes rate and total simultaneously, 1/rate (time), linearized non-linear inputs, batch controller.

DUAL CHANNEL COUNTER INPUT: \$List

See the catalog for default configurations & scaling.

C	1	Rate (Frequency)	65
	2	Period	65
	3	Count/Total	65
	4	Time Interval	65
	5	Stopwatch	65
	6	Phase Angle (Extended only)	65

Default ranges for C1 to C6 are shown in the catalog. For ranges other than default, add the -SC option.

Basic counter:

Frequency, rate or period (2 channels simultaneously), total (up or down, 2 channels simultaneously), stopwatch, time interval and square root of rate.

Extended counter (addition to basic features):

Rate and total simultaneously, linearized inputs (up to 180 points), arithmetic functions (A*B, A/B, A+B, A-B, A/B-1), phase angle, duty cycle, up/down counting, batch control.

QUADRATURE INPUT

Q	Quadrature	95
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Basic counter:

Position or length from encoders. Differential or single-ended inputs: 1x, 2x or 4x, plus zero index.

Extended counter (addition to basic features):

Bidirectional rate (rate & position or length are not simultaneous).

SC	Special Configuration	25
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Specify when scalings or configurations other than those shown are required.

MICRO SERIES

Digital Indicators

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ACCESSORIES

HW04 Environmental Cover Kit..... 35
Provides extra protection from weather. Kit includes polycarbonate cover, gasket and screws.

CONDITIONS OF SALE:

- FREIGHT:** F.O.B Temecula, California. Insurance and handling (1% of shipment product cost with \$1.00 minimum and \$7.00 maximum) is added to all freight charges.
- PACKAGING:** All shipments made in cartons acceptable for domestic and export carriers.
- TERMS:** Net 30 days from invoice date with credit approval, Visa, Mastercard, American Express or COD. 1 1/2% service charge on balances beyond 30 days. Returns must be authorized and are subject to a restocking fee and maximum of 90 days from invoice date.
- PRICES:** Prices, product listings and manufacturing details are subject to change without notice. Prices shown are for single delivery orders of \$35.00 minimum.
- DELIVERY:** All models are stocked at the factory in modular form.

LIMITED PRODUCT WARRANTY:

Electro-Numerics Incorporated warrants these products to be free of defects in material and workmanship for two years from date of shipment to original customer. This warranty on materials and workmanship may be considered as unconditional provided that, in the opinion of Electro-Numerics, the equipment has not been mechanically, environmentally or electrically abused and has been installed, maintained and operated within the limits of rated or normal usage.

Defective products must be sent, transportation charges prepaid with notice of the defect, to our plant in Temecula CA.

This warranty is limited, at the option of Electro-Numerics, to repair, replacement, or an appropriate credit adjustment not to exceed the original equipment sales price. All warranty freight charges are F.O.B., our plant, Temecula, CA. Electro-Numerics assumes no liability in connection with the sales of its products beyond that stated above and is not responsible for any incidental or consequential loss or damage which might result from a failure of any Electro-Numerics' product.

SERVICE:

Products being returned for service should be sent, freight prepaid, to Electro-Numerics, Inc., 42213 Sarah Way, Temecula, CA, U.S.A. to the attention of the Repair Department with a full description of the problem or reason for return. All items sent in for service are subject to a minimum evaluation charge of \$65.00 in the event that the product is found to be out-of-warranty or, if under warranty, not in need of additional service. Out-of-Warranty service and repair charges will be quoted on a case-by-case basis. All repaired products will be shipped to you F.O.B., Temecula, CA.

ELECTRO-NUMERICS, INC.

For Product Assistance, Call
800-854-8530 (U.S.A.)

Web Site: www.ElectroNumerics.com
Email: sales@ElectroNumerics.com



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