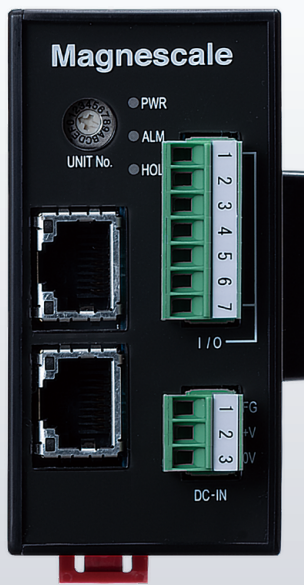


Ethernet-based network interface

# MG80-NE/EI/PN

High-speed processing (400 $\mu$ s) of all axis values and calculations. Perfect for quick cycle times and dynamic measurement.



Ethernet



EtherNet/IP



PROFINET

## Main specifications

Main module	MG80-NE	MG80-EI	MG80-PN
Communication protocol	Ethernet (TCP/TP) 100BASE-TX	EtherNet/IP	PROFINET
Function	Resolution selection (0.1 to 10 μm), reference point setting, reset, preset, master preset, current value / maximum value / minimum value / P-P value output of each axis, calculation function (2-axis addition and subtraction), comparator function (Up to 8 sets of 2 or 4 steps can be set)		
Transmission speed	100 Mbit/s		
Maximum connectable counter modules	Up to 16 MG80-CM can be connected to each MG80-NE. This enables an overall configuration of up to 64 modules by linked connection.	Up to 16 MG80-CM can be connected to each MG80-EI or MG80-PN. Link up to 255 units via fieldbus IP address configuration.	
Mounting method	35 mm DIN rail mounting		
Power supply voltage	DC 10.8 to 26.4 V		
Power consumption	2.4 W or less		
Maximum cable length*	20 m (shielded CAT5e LAN cable recommended)		

\*The customer must provide the communication cables.

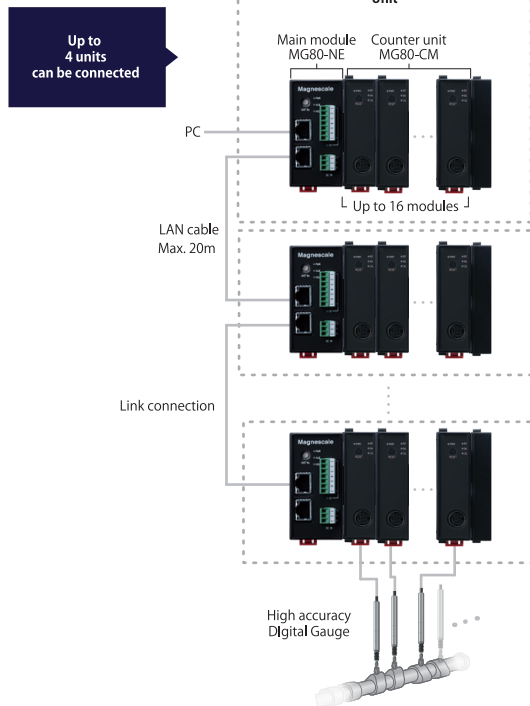
Counter module	MG80-CM
Power consumption	2.0 W or less (Measuring unit excluded)
Compatible measuring units	DK series, DT series (via MT)
Alarm	Frequency response exceeded, Measuring unit not connected, Cable breakage

I/O module*	LZ80-K1/LZ80-K2
Power consumption	2.0 W or less
I/O	9-pole connector × 2 Photo coupler insulated 8 input, 8 output LZ80-K1: Current Sink LZ80-K2: Current Source

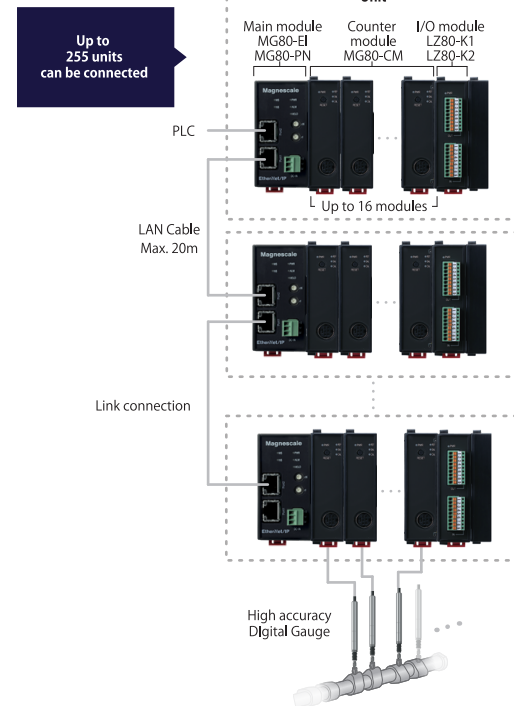
\* Cannot connect to MG80-NE

## System overview

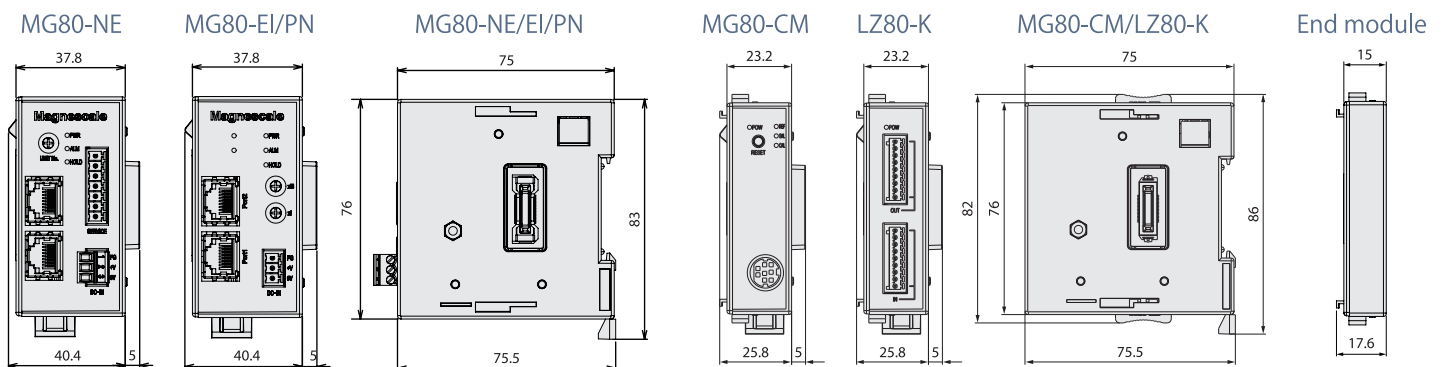
### MG80-NE



### MG80-EI/PN



## Dimensions



⚠ To use this product safely, please read the instruction manual carefully and thoroughly prior to usage. \*Magnescale reserves the right to change product specifications without prior notice.

## Magnescale Co., Ltd.

International Sales Department : 3-1-4 Edagawa, Koto-ku, Tokyo 135-0051, Japan TEL:+81(0)3-6632-7924 FAX:+81(0)3-6632-7928 Email: info-mgs-eng@magnescale.com  
 Magnescale Americas Inc. : 1 Technology Drive, Suite F217, Irvine, CA 92618, USA TEL:+1(949)727-4017 FAX:+1(949)727-4047 Email: info-am@magnescale.com  
 Magnescale Europe GmbH : Antoniusstrasse 14, 73249 Wernau, Germany TEL:+49(0)7153-934-291 FAX:+49(0)7153-934-299 Email: info-eu@magnescale.com  
 Service & Parts : 45 Suzukawa, Isehara-shi, Kanagawa 259-1146, Japan TEL:+81(0)463-92-2132 FAX:+81(0)463-92-3090 Email: info-css@magnescale.com

<https://www.magnescale.com>

MAGNESCALE is a trademark or registered trademark of Magnescale Co., Ltd., Japan The contents of this literature are as of Aug. 2020  
 MG80-NE/EI/PN-EA01(01)M M.2008