

Ethernet-based network interface

MG80-NE/EI/PN/EC

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



Main specifications

| Main module | MG80-NE | MG80-EI | MG80-PN | MG80-EC |
|-------------------------------------|--|---|---|----------|
| Communication protocol | Ethernet (TCP/IP) 100BASE-TX | EtherNet/IP | PROFINET | EtherCAT |
| 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. | Up to 16 MG80-CM can be connected to each MG80-EC. Link up to 65,535 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.

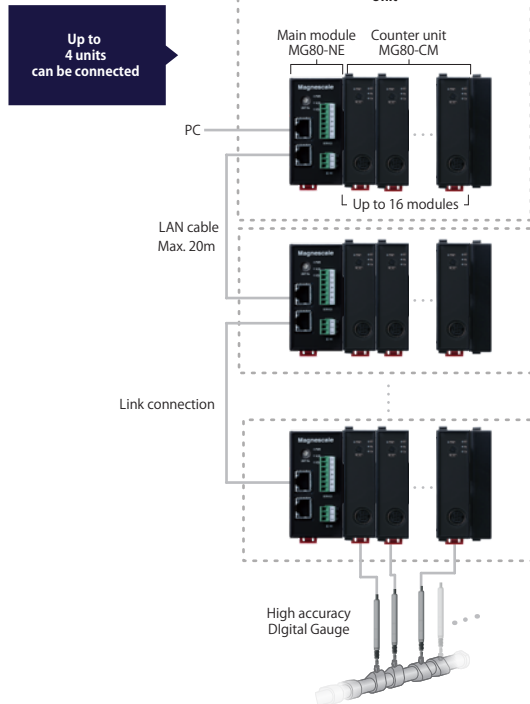
| Counter module | MG80-CM |
|----------------------------|---|
| Power consumption | 2.0 W or less (Measuring unit excluded) |
| Compatible measuring units | DK series, DT series (via MT13) |
| Alarm | Frequency response exceeded, Measuring unit not connected, Cable breakage |

| I/O module (Option)* | 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 |

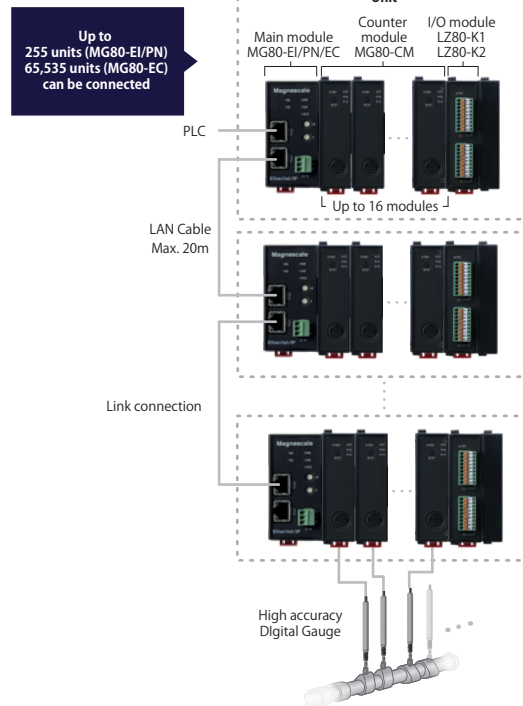
* Cannot connect to MG80-NE

System overview

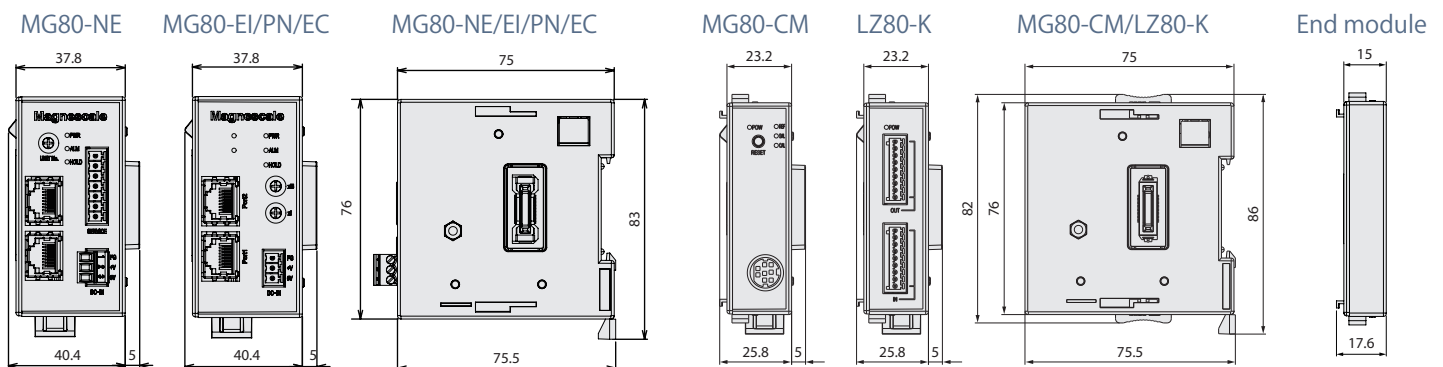
MG80-NE



MG80-EI/PN/EC



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.

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