

Magnescale

SPEED X PRECISION

RS-232C and Ethernet
interface modules

MG80-SC

PLC link function allows communication with
multiple PLC brands with no programming



Bi-directional data
transfer via RS-232C

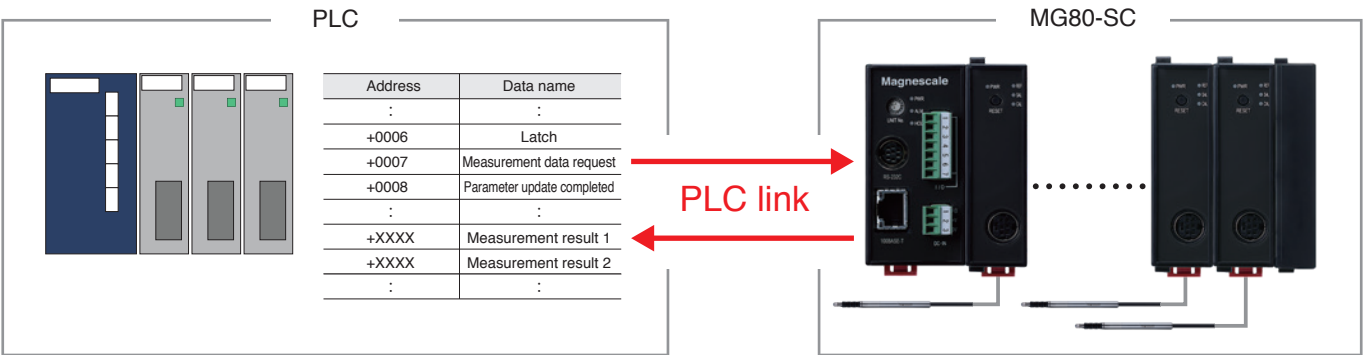
Connect up to 16 Magnescale
DK- or DT-series gauges



Magnescale Co., Ltd.

■ PLC link

By connecting the PLC to the MG80-SC via RS-232C or Ethernet, data can be transferred without PLC programming.
Compatible with PLCs manufactured by Mitsubishi Electric, OMRON and Keyence.



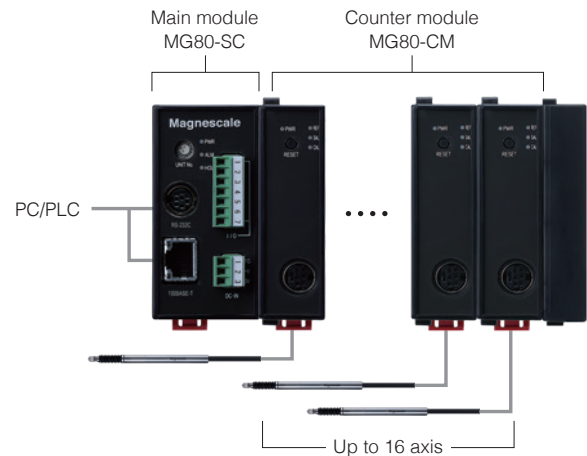
■ Main specifications

Main module	MG80-SC1(NPN) / MG80-SC2(PNP)
Communication protocol	RS-232C (2,400bit/s to 230,400bit/s) Ethernet(100BASE-TX : 100Mbit/s)
Function	Resolution selection (0.1 to 10 μm) / reset / master preset / current value, maximum value, minimum value, P-P value output of each axis /comparator function (Up to 2 or 4 steps can be set) / PLC link*1
Maximum connectable counter modules	Up to 16 MG80-CM can be connected (MG80-SC+MG80-CM x16)
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 communication cable length	RS-232C : 15m*2 Ethernet : 20m(shielded CAT5e LAN cable recommended*3)

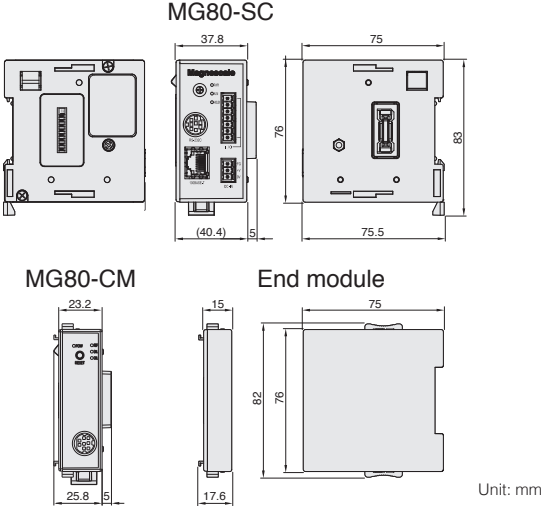
*1 Refer to the connection manual for compatible PLCs. *2 Please use DZ252 (sold separately) for RS-232C communication cable. *3 Ethernet communication cables not included.

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

■ System overview



■ 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	: 3-1-4 Edagawa, Koto-ku, Tokyo 135-0051, Japan	TEL.+81(0)3-6632-7924	E-mail : info-mgs-eng@magnescale.com
Magnescale Americas Inc.	: 1 Technology Drive, Suite F217, Irvine, CA 92618, USA	TEL.+1(949)727-4017	E-mail : info-am@magnescale.com
Magnescale Europe GmbH	: Antoniusstrasse 14, 73249 Wernau, Germany	TEL.+49(0)7153-934-291	E-mail : info-eu@magnescale.com
Customer Support	: 45 Suzukawa, Isehara-shi, Kanagawa 259-1146, Japan	TEL.+81(0)463-92-2132	E-mail : info-css@magnescale.com

www.magnescale.com

The contents of this literature are as of Oct. 2022
MG80SC-EA01(02)C
C.2408.CB