

MG40 Series

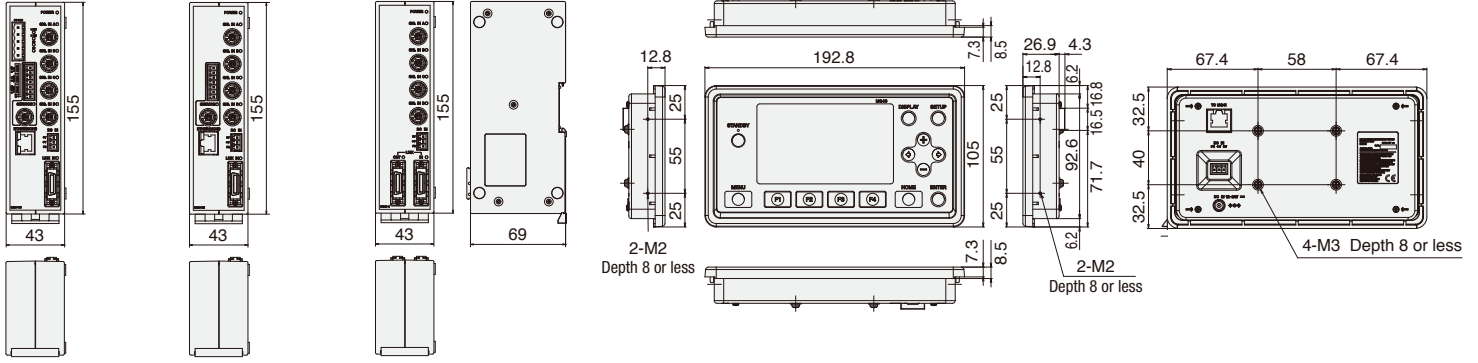


Main unit
MG41-NC
(for CC-Link, Ethernet)

Main unit
MG41-NE
(for Ethernet)

Hub unit
MG42
* Common to MG41-NC and MG41-NE

Display unit
MG43



Link cable MZ41-R5(0.5 m), MZ41-R01(1 m), MZ41-R5(5 m)MZ41-10(10 m)

Unit: mm

Specifications		Description				Remarks	
Item	Conditions, etc.	Description				Remarks	
Communication method		MG41-NC (CC-Link/Ethernet incorporated) / MG41-NE (Ethernet incorporated) / MG42-4 (hub unit)					
No. of connectable measuring units	Entire system	1 to 100 units (Connection of 101th unit and later disabled)				Up to 24 connected MG42 hub units	
	MG41 main unit	0 to 4 units					
MG42 hub unit							
Connectable measuring units		DK800S, DK830S, DK800A/DK800B Series, DK10, DK25, DK50, DK100, DK110, DK155, DK205					
Connection cable length		MG41 main unit to MG42 hub unit, MG42 total cable length to MG42 hub unit: 0.5 m, 1 m, 2 m, 5 m, 10 m Total cable length from MG41 main unit: 30 m max. (Max. current: 4 A or less)				Connection cable MZ41** (optional)	
Resolution		Settable output data resolution and display resolution					
Measuring unit resolution (input resolution)	0.1 μm	0.1 μm	0.5 μm	1 μm	5 μm	10 μm	
	0.5 μm	—	0.5 μm	1 μm	5 μm	10 μm	
Measuring unit data fetching capacity	10 Mbps data transfer	Maximum 10,000 data/sec (when 100 axes are connected)				Data for one axis is counted as one data.	
Peak-hold function		Calculation of maximum, minimum, and peak-to-peak values for each axis (including pause, latch, and start functions)					
		Peak value is not updated during pause.					
		No output and display data updated during latching (but internal data is updated)					
Output-enable data	Single axis	Recalculation of peak value is started by start function.					
	At addition and subtraction	Current, maximum, minimum, and peak-to-peak values for each axis				Single-axis calculation of addition and subtraction axes is disabled.	
Comparator function		Current, maximum, minimum, and peak-to-peak values of addition and subtraction axes of two axes					
	Comparator setting values	Data of each axis (single axis, addition/subtraction axis) is compared and measured to output the comparator results (Comparator is also latched during latch)					
No. of setting value sets	2 values	4 values	8 values	16 values			
	16 groups	8 groups	4 groups	2 groups			
Ethernet		100Base-T (compliant with IEEE 802.3) 100 Mbps/10 Mbps (Auto-negotiation) Command input, data output, and parameter setting enabled.					
Reset function		The Current value for each axis is reset (with command).					
Preset function		The Value is preset to the current value of each axis (with command).					
Datum-point setting function		The Datum point of each axis is settable (with command).				When master calibration function is not used	
Reference point function		The datum point of each axis can be reproduced using the reference point (with command).					
Master calibration function		Master calibration of each axis can be reproduced using the reference point (with command).				Addition and subtraction axes are unavailable.	
Measuring unit product information		The product information of the connected measuring unit can be acquired (with command). Product code, serial no., production date					
Command/setting enabled or disabled for each communication line	Command	Reset function					
		Preset function					
		Datum-point setting function					
		Reference point function					
		Master calibration function					
		Comparator value setting					
		Comparator group number setting					
		Start					
		Pause					
		Latch					
		Data output	Current value/Peak value (All axes)				×
			Current value/Peak value (each unit)				
			Comparator judgment result				
			Alarm (Communication/Measuring unit)				
		Settings	Software version				
Measuring unit product information							
Input resolution							
Display and output resolution							
Axis addition							
Comparator mode (2, 4, 8, or 16 values in 1 group)							
Supply voltage	Terminal board	12 to 24 V (11 to 26.4 V) DC				Used by adding power at a current of 4A or more on a six MG42 hub units basis. (Recommended: +24 V)	
Power consumption	Cautions for connecting conditions	System total: Max. current 4 A If system power consumption exceeds the maximum current, supplying power to a succeeding MG42 hub unit enables the main unit to be connected to the succeeding MG42 hub unit. -<Details of power consumption for each unit>- MG41 main unit: 4 W, MG42 hub unit: 1 W/unit, Measuring unit supply: 1 W/unit					
Operating temperature and humidity range		0 to +40 °C (no condensation)					
Storage temperature and humidity range		-10 to +60 °C (20 to 90 % RH)					
Mass		MG41: 300 g MG42: 250 g					

* If DK800S connected to MG40 is connected to LT30 or MG10/20, the reference point cannot be recognized. For more information, contact our Sales Dept. in charge. * Connection of MG41 to MG43 using Ethernet connection requires an additional Ethernet hub.

Display unit MG43 specifications		Description	
Item	Description	Item	Description
Compatible main units	MG41-NE/MG41-NC	Network interface	100Base-TX/10Base-T (compliant with IEEE802.3) Auto-negotiation
Compatible hub units	Hub units supported by the main unit	Power supply	12 to 14 V (11 to 26.4 V) DC
Compatible measuring units	Measuring units supported by the main unit and hub units	Power consumption	4 W
Main functions	Measured data monitoring, system monitoring, setting monitoring	Operating temperature & humidity range	0 to +40 °C (no condensation)
Communication protocol	Specific protocol on TCP/IP	Storage temperature & humidity range	-10 to +60 °C (20 to 90 %RH)
Screen display	480 x 272 pixels, 4.3-inch TFT LCD with backlight	Mass	Approx. 500 g