

MG40

Specifications

Item	Conditions		Description				Remarks				
	No. of connectable measuring units	Entire system		1 to 100 units (Connection disabled after connection of 101st unit.)				Up to 24 connected MG42 hub units			
MG41 main unit			0 to 4 axis								
MG42 hub unit											
Connectable measuring units			DK800A/DK 800B series, DK10, DK25, DK50, DK100, DK110, DK155, DK205								
Connection cable length			Between MG41 main unit and MG42 hub unit, between MG42 hub unit and MG42 hub unit: 0.5 m, 1 m, 2 m, 5 m, 10 m Total cable length from MG41 main unit: Maximum 30 m(Maximum current: 4 A or less)								
Resolution			Settable output data resolution and display resolution								
Measuring unit resolution (input resolution)	0.1μm		0.1μm	0.5μm	1μm	5μm	10μm				
	0.5μm		-	0.5μm	1μm	5μm	10μm				
Measuring unit data import capacity	10 Mbps data transfer		Maximum 10,000 data/s (when 100 axes are connected)				The data for one axis is counted as one data.				
Peak-hold function			Calculation of maximum value, minimum value, and peak-to-peak value for each axis (including pause, latch, and start functions)								
			Peak value is not updated during pause.								
			Output and display data are not updated during latching (internal data is updated)								
Output data	Single axis		Current value, maximum value, minimum value, and peak-to-peak value for each axis								
	Addition and subtraction		Current value, maximum value, minimum value, and peak-to-peak value for the two-axis addition/subtraction axis				Single axis calculation of an addition/subtraction axis is not possible(for preventing inconsistencies in calculation).				
Comparator function			Data for each axis (single axis, addition/subtraction axis) is compared and measured, and the comparator results are output (Comparator during latch is also latched.)								
Comparator setting values			2 values	4 values	8 values	16 values					
No. of setting value groups			16 groups	8 groups	4 groups	2 groups					
Ethernet			100Base-T (compliant with IEEE 802.3) 100 Mbps/10 Mbps (Auto-negotiation)								
Reset function			Current value for each axis is reset (by command).								
Preset function			Value is preset to the current value of each axis (by command).								
Datum point setting function			Datum point of each axis can be set (by command).								
Reference point function			Reference point can be used to relocate the datum point of each axis (by command).				When master calibration function is not used				
Master calibration function			Reference point can be used to perform master calibration for each axis (by command).				Addition/subtraction axis cannot be used.				
Measuring unit product information			The product information of the connected measuring unit can be acquired.								
Command/setting enabled or disabled for each communication line			Command	Reset function	Available	Available	Available	When master calibration function is not used			
				Preset function							
				Datum point setting function							
				Reference point function							
				Master calibration function							
				Comparator value setting							
				Comparator group number setting							
				Start							
				Pause							
				Latch							
				Data output					Available	N/A	Available
				Current value/Peak value (All axes)							
				Current value/Peak value (each unit)							
				Comparator result							
				Alarm (Communication/Measuring unit)							
Settings	Available										
Soft ware 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 input		DC 12 to 24 V (11 to 26.4 V)				Use a power supply with a current that is 4 A or higher.(Recommended: +24 V) (for every six MG42 hub units)				
Power consumption	Note the connection conditions.		System total: Max. current 4 A When the maximum current is exceeded, the connection can be enabled by providing a power supply to the MG42 hub units that come later in the connection. <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 +50 °C (no condensation)								
Storage temperature and humidity range			-10 to +60 °C (20 to 90 % RH)								
Mass			MG41 : 300 g , MG42 : 250 g								

Display unit MG43

Specifications

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 compatible with the main unit	Power consumption	DC12~24V(11~26.4V)
Compatible measuring units	Measuring units compatible with the main unit or hub unit	Power supply	4W
Main functions	Measure Monitor, Setting Monitor, System Monitor	Operating temperature range	0 to +40°C (no condensation)
Communication protocol	MG40 original protocol on TCP/IP	Storage temperature and humidity range	-10~+60°C(20~90%RH)
Screen display	480 x 272 pixels, 4.3-inch TFT LCD with backlight	Mass	Approx.500g

