MG40

Item	Conditions	Description					Remarks
No. of connectable measuring units	Entire system	1 to 100 units (Connection disabled aft er 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)					
		Recalculation of peak value is started by start function.					
Output data	Single axis	Current value, maximum value, minimum value, and peak-to-peak value for each axis					Single axis calculation of an addition/subtraction axis is not possible(for preventing inconsistencies in calculation).
	Addition and subtraction	Current value, maximum value, minimum value, and peak-to-peak value for the two-axis addition/subtraction axis					
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) Command input, data output, and parameter setting are possible.					
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).					When master calibration function is not used
Reference point function		Reference point can be used to relocate the datum point of each axis (by command).					
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			Ethernet	CC–Link	
	Command	Reset function	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	Current value/Peak value (All axes)		N/A	
		Current value/Peak value (each unit)		Available	
		Comparator result			
		Alarm (Communication/Measuring unit)			
		Soft ware version			
		Measuring unit product information			
	Settings	Input resolution			
		Display and output resolution			
		Axis addition			
		Comparator mode (2, 4, 8, or 16 values in 1 group)			

Item	Conditions	Description	Remarks
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

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

Main unit MG41-NC(CC-Link) / Main unit MG41-NE(Ethernet) / Hub unit MG42 / ▧MG41、42 common / Display unit MG43

Unit:mm

<MG43 Mounting the display unit form the panel front>

Unit:mm