

## 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 units					
	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)	0.1 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 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.	
Data format			Signed 7-digit fixed data with decimal (zero suppression for higher digits)					
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					
	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/1 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).					
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					Ethernet	Fieldbus		
			Command	Reset function		<input type="radio"/>	<input type="radio"/>	
				Preset function		<input type="radio"/>	<input type="radio"/>	
				Datum point setting function		<input type="radio"/>	<input type="radio"/>	When master calibration function is not used
				Reference point function		<input type="radio"/>	<input type="radio"/>	
				Master calibration function		<input type="radio"/>	<input type="radio"/>	
				Comparator value setting		<input type="radio"/>	<input type="radio"/>	
				Comparator group number setting		<input type="radio"/>	<input type="radio"/>	
			Start		<input type="radio"/>	<input type="radio"/>		
			Pause		<input type="radio"/>	<input type="radio"/>		
			Data output	Latch		<input type="radio"/>	<input type="radio"/>	
				Current value/Peak value (All axes)		<input type="radio"/>	<input checked="" type="radio"/>	
				Current value/Peak value (each unit)		<input type="radio"/>	<input type="radio"/>	
				Comparator result		<input type="radio"/>	<input type="radio"/>	
				Alarm (Communication/Measuring unit)		<input type="radio"/>	<input type="radio"/>	
			Settings	Soft ware version		<input type="radio"/>	<input type="radio"/>	
				Measuring unit product information		<input type="radio"/>	<input type="radio"/>	
				Input resolution		<input type="radio"/>	<input type="radio"/>	
Display and output resolution		<input type="radio"/>		<input type="radio"/>				
Axis addition		<input type="radio"/>		<input type="radio"/>				
Comparator mode (2, 4, 8, or 16 values in 1 group)		<input type="radio"/>		<input type="radio"/>				

## External Dimensions

