

# SONY

NEW

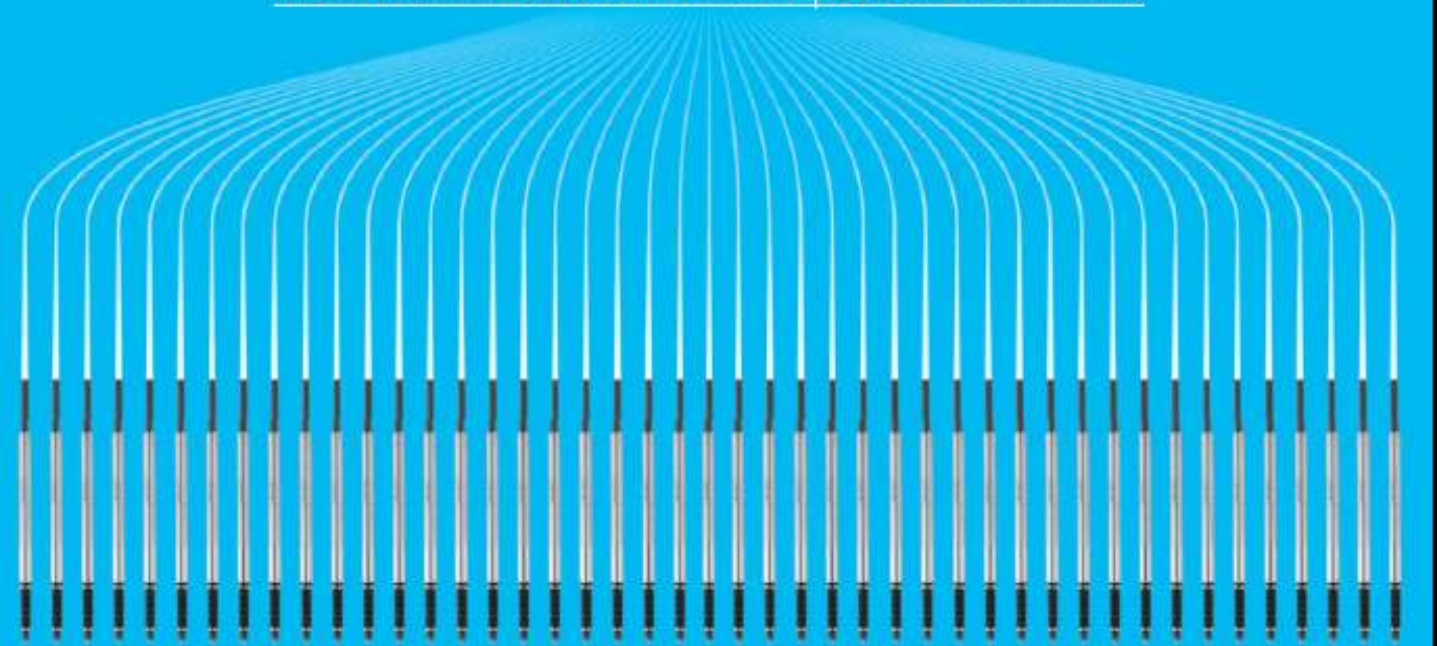


Networking via Ethernet

# MG40 SERIES

Multi-axis measurements & Simple wiring connections

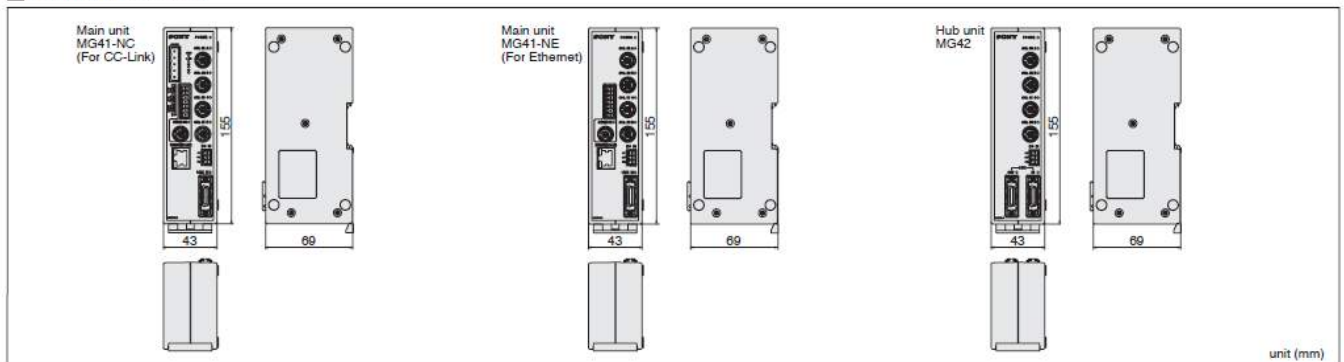
High-speed data communication



## 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						
	MG42 hub unit	0 to 4 units					
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	No. of setting value groups	2 values	4 values	8 values	16 values		
		18 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	Command		Ethernet	Fieldbus			
		Reset function	○	○			
		Preset function	○	○			
		Datum point setting function	○	○			
		Reference point function	○	○			
		Master calibration function	○	○			
		Comparator value setting	○	○			
		Comparator group number setting	○	○			
		Start	○	○			
		Pause	○	○			
		Latch	○	○			
		Current value/Peak value (All axes)	○	○	×		
		Current value/Peak value (each unit)	○	○			
		Comparator result	○	○			
		Alarm (Communication/Measuring unit)	○	○			
		Soft ware version	○	○			
		Data output	Measuring unit product information	○	○		
Input resolution	○		○				
Display and output resolution	○		○				
Settings	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 +80 °C (20 to 90 % RH)					
Mass		MG41 : 300 g , MG42 : 250 g					

## External Dimensions



Diese Daten können jederzeit ohne Vorankündigung geändert werden

**WayCon Positionsmesstechnik GmbH**

e-mail: [info@waycon.de](mailto:info@waycon.de)

internet: [www.waycon.de](http://www.waycon.de)

**Head Office**

Mehlbeerenstr. 4

82024 Taufkirchen

Tel. +49 (0)89 67 97 13 -0

Fax +49 (0)89 67 97 13-250

**Office Köln**

Auf der Pehle 1

50321 Brühl

Tel. +49 (0)2232 56 79 44

Fax +49 (0)2232 56 79 45

**WayCon**

Positionsmesstechnik