MG40 SERIES

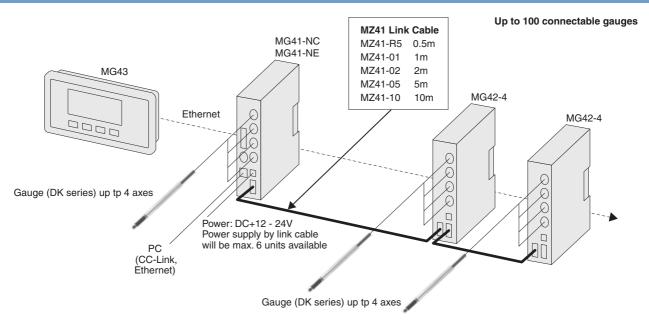
Intelligent Network system

- Up to 100 connectable gauges
- High speed data communication 100Mbit/sec
- Compatible with Ethernet, cc-Link
- Operating voltage: 12-24VDC
- DIN rail mounting (35mm)

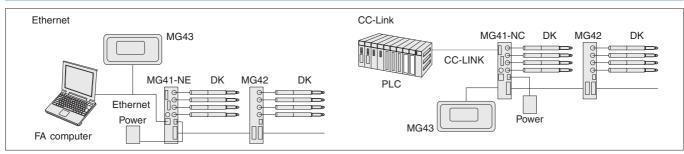




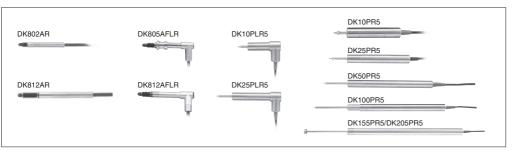
System structure

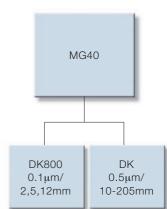


MG series System structures



Spec. Mod	el DK802A/B	DK805A/B	DK812A/B	DK10	DK25	DK50	DK100	DK110	DK155	DK205
Min.resolution		0.1µm					0.5µm			
Accuracy		1μm			2μm			4μm		6μm
Measuing Range	2mm	5mm	12mm	10mm	25mm	50mm	100mm	110mm	155mm	205mm





MG40

10-10										
Specifications										
					Describet	n n			Di	
Item	Conditions	Description						Remarks		
	Entire system	1 to 100 units (Connection disabled aft er connection of 101st unit.)						Up to 24 connected MG42 hub units		
No. of connectable measuring units	MG41 main unit		·							
measuring units	MG42 hub unit									
Connectable measuring units		DK800A/DK 800B series, DK10, DK25, DK50, DK100, DK110, DK155, DK205 Between MG41 main unit and MG42 hub unit, between MG42 hub								
			Be	etween MG41 main u	ınit and MG42	hub unit. b	netween MG42 hub			
Connection cable length										
· ·		To	tal cable le	ength from MG41 ma	ain unit: Maxim	um 30 m(N	Maximum current: 4 A	or less)		
Resolution				Settable output	data resolution	and displ	ay resolution			
Measuring unit resolution	0.1µm	0.1µm		0.5µm	1µm		5µm	10µm		
(input resolution)	0.5µm	-		0.5µm	1µm		5µm	10µm		
Measuring unit data import capacity	10 Mbps data transfer			Maximum 10,000	data/s (when	100 axes a	are connected)	•	The data for one axis is counted as one da	
		Calculation of maxin	num value,							
Peak-hold function		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.								
Peak-noid function										
	Single axis	С	urrent valu	ue, maximum value,	minimum value	, and peak	k-to-peak value for eac	h axis		
Output data	Addition and authoration	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	
	Addition and subtraction	Current value, n	naximum v	value, minimum value	e, and peak-to-	-peak valu	e for the two-axis addi	tion/subtraction axis	not possible(for preventing inconsistencies in calculation	
Comparator function		Data for each axis (single a	axis, addition/s	subtraction axis) is compare	d and measured, an	d the compara	ator results are output.(Compa	ator during latch is also latched.)		
Comparator setting values		2 values		4 values		8 v	alues	16 values		
No. of setting value groups		16 groups		8 groups		4 g	roups	2 groups		
Ethernet							Mbps (Auto-negotiati	on)		
Literret			Co	ommand input, data	output, and pa	arameter s	etting are possible.			
Reset function				Current value	for each axis is	reset (by	command).			
Preset function										
Datum point setting function			When master calibration function is not us							
Reference point function		R	When master calibration function is not us							
Master calibration function		Re	Reference point can be used to relocate the datum point of each axis (by command). 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 pr	roduct information of	the connected	d measurin	g unit can be acquired			
							Ethernet	CC-Link		
			Reset function							
			Preset function Datum point setting function Reference point function							
									When master calibration function is not us	
									Who i made salistator and other to	
		Command	Master calibration function					Available		
		Communic	Comparator value setting							
			Compara	Comparator group number setting						
			Start							
			Pause Latch							
Command/setting enabled or disabled for each							Available			
communication line			Current value/Peak value (All axes)				N/A			
oorning noddor in o			Current v	alue/Peak value (ead	ch unit)					
		Data output	Compara	Comparator result						
		Sata output	Alarm (Communication/Measuring unit) Soft ware version							
			Measuring	leasuring unit product information				Available		
			Input resolution Display and output resolution							
		Settings								
		Settings	Axis addir	tion						
			Campagaga	tor mode (2, 4, 8, or 1	16 values in 1 gr	oup)				
			Comparai	DC 12 to 24 V (11 to 26.4 V)						
Supply voltage	Terminal input	DC 12 to 24 V (11 to							Use a power supply with a current that is 4 A or higher (Recommended: +24 V) (for every six MG42 hub units)	
Supply voltage		DC 12 to 24 V (11 to	26.4 V)						4 A or higher (Recommended: +24 V)	
•	Note the connection	System total: Max. c	26.4 V) urrent 4 A		nabled by providing	a power subo	oly to the MG42 hub units tha	t come later in the connection.	4 A or higher (Recommended: +24 V)	
•		System total: Max. c When the maximum curren	26.4 V) current 4 A	J, the connection can be er			oly to the MG42 hub units tha nit : 1 W/unit , Measuring	t come later in the connection. unit supply: 1 W/unit	4 A or higher (Recommended: +24 V)	
Supply voltage Power consumption Operating temperature and humidity range	Note the connection	System total: Max. c When the maximum curren	26.4 V) current 4 A t is exceeded sumption for	J, the connection can be er					4 A or higher (Recommended: +24 V)	
Power consumption	Note the connection	System total: Max. c When the maximum curren <details cons<="" of="" power="" td=""><td>26.4 V) urrent 4 A t is exceeded sumption for</td><td>, I, the connection can be er r each unit> MG41 ma</td><td></td><td></td><td></td><td></td><td></td></details>	26.4 V) urrent 4 A t is exceeded sumption for	, I, the connection can be er r each unit> MG41 ma						

Display unit MG43

Specifications					
Item	Description	I tem	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		

