

SONY

Digital Gauge
Multi-Interface Unit **MG SERIES**

上海迈信诺
Flexible digital gauge system for multi-point measuring



F: 021 6277 5787 MULTI-INTERFACE UNIT

The “MG” series is a modular gauging system that allows for flexible, multi-point measuring, with built-in software for today’s most popular output protocols.

Because of its modular construction, the “MG” system can be easily mounted to a standard DIN rail (35mm), requires minimal wiring, and can be easily expanded for future upgrades.

- Up to 64 connectable gauges
- Input resolutions: 0.1 μ m, 0.5 μ m, 1 μ m, 5 μ m, and 10 μ m.
- Compatible with RS-232C, BCD
- Operating voltage: 12-24VDC
- DIN rail mounting (35mm)



Sony Manufacturing Systems Corporation



Isehara Center is registered to ISO 9001(Quality)

Main module

Model name	MG10-P1	MG10-P2
Power source	Supply voltage	DC12-24V(11-26.4V)Min. startup time: 100ms or less
	Power consumption	2.0W + total power consumption for connected modules*1
	Inrush current (10ms)	10A or less (when maximum number of modules are connected)
	Power supply protection	Fuse (5A fuse is built in.)
Communication	Communication I/F	RS-232C (EIA-232C or equivalent)
	Baud rate setting	2400 / 9600 / 19200 / 38400 bps (set with DIP switch)
	Data length	7 / 8 bit (set with DIP switch)
	Stop bit	1 / 2 bit (set with DIP switch)
	Parity	none / ODD / EVEN (set with DIP switch)
	Delimiter	CR / CR+LF (set with DIP switch)
Linkage function	Maximum number of linkages	16 (total of counter modules: 64)
	Maximum length of linking cable	10m
I/O	Input format	source input (+COM) sink input (-COM)
	Output format	sink type (-COM) source type (+COM)
	Input signal	Photo coupler insulation, external power: DC5 - 24V
	Output signal	Photo coupler insulation, external power: DC5 - 24V
	Counter modules	MG20-DK, MG20-DG and MG-20DT (available for mixed use, up to 16 modules) *1
Connectable modules	Interface modules	MG30-B1, MG30-B2

*1: Total power of modules connected to MG10 should not be over 54W (12VDC Input) or 108 W (24VDC Input).

Counter module

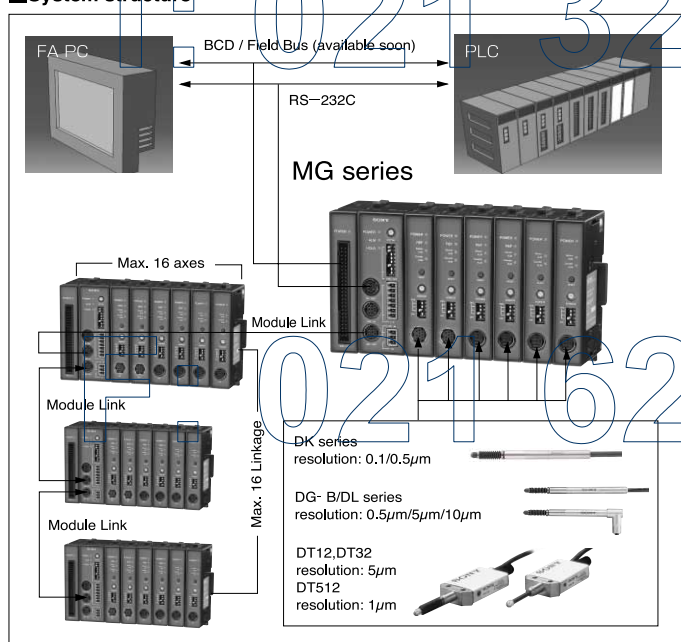
Model name		MG20-DK	MG20-DG	MG20-DT
Power consumption		1W + power consumption for connected gauge	1.4W (connected to DG-B) / 0.5W (connected to DL-B)	0.8W
Measuring unit input	Corresponding gauge	DK series (A/B quadrature input)	DG**B series, DL**B/DL**BR series	DT series
	Allowable resolution setting *2	10 / 5 / 1 / 0.5 / 0.1 μm	10 / 5 / 0.5 μm set with DIP switch	5 μm (DT12/32) 1 μm (DT512)
	Maximum response speed	Subject to the specification of the connected gauge		
	Reference point *3	REF-LED (reference point loaded) shows on the display after the reference point is detected. Set "0" or preset value on the counter when the reference point is detected.		
Others	Alarm	S-ALM LED activates by excess speed/acceleration of measuring unit. C-ALM LED activates by excess speed of the internal circuit of counter. Alarm display is cancelled by reset command from MG10 or with the reset button of main unit.		

*2: Set the resolution value of the connected gauge. *3: MG20-DG work only connect to DL**BR series

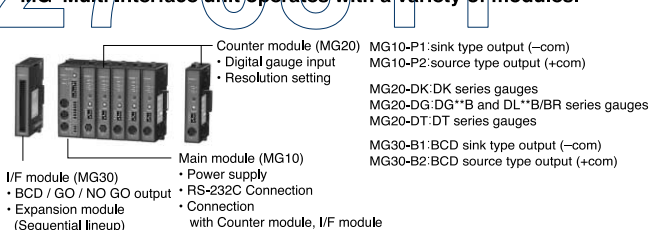
Interface module

Model name	MG30-B1	MG30-B2
Power consumption	source input (+com)	sink input (-com)
	Photo coupler insulation, external power: DC5 - 24V	
	sink type (-com)	source type (+com)
	Photo coupler insulation, external power: DC5 - 24V	
I/O	Input format	DRQ / channel address / measuring mode shifting / comparator shifting / reset / start / posing / reference point loaded
	Output format	BCD data (6 digits) / READY / code / GO/NO GO output / alarm / reference point loaded
	Output setting	timer (1~128ms) / OUT / OR / polarity (set with internal DIP switch)
All models	Operating temperature	0~+50°C (No condensation)
	Storage temperature	-10~+60°C (20~90%RH)

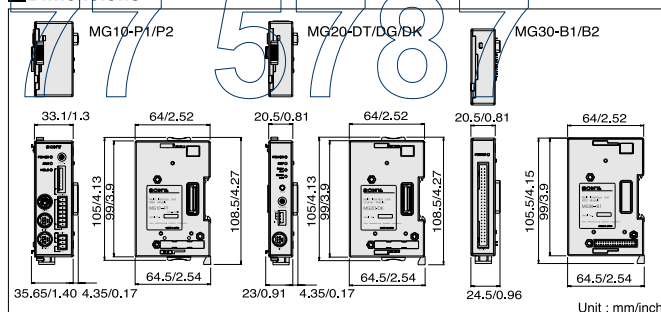
System structure



"MG" Multi Interface unit operates with a variety of modules.



Dimensions



⚠ Safety notice: Prior to use, be absolutely certain to read and understand the Operating Instruction to ensure proper use of this product.

● Specifications and dimensions listed in this brochure are subject to change without notice due to product improvement.

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