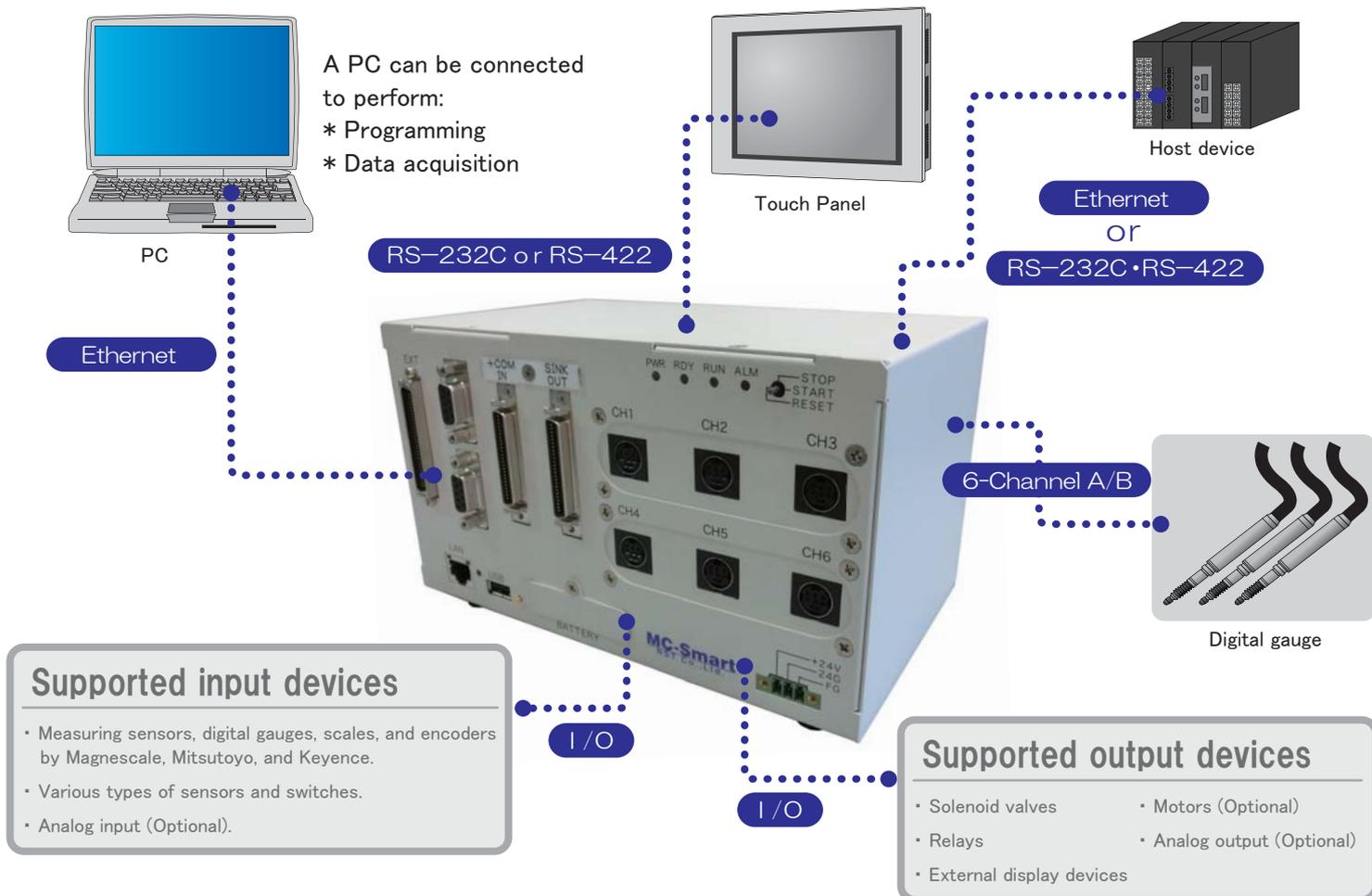


Measuring Controller with PLC MC-Smart[®]

MC-Smart is a moderately priced, highly scalable measuring controller that calculates various parameters such as dimension, torque, and weight.



Simple, Yet Highly Scalable

1 Easily Connected

- Directly connect devices such as gauges, scales, and rotary encoders.

2 Easily Programmed

- Programming made easy by proprietary commands developed specifically for this product.
- Operation, Evaluation, I/O, and data transfer executed by a single command.

3 Easily Operated

- Monitor input and output from a PC.
- Simple debugging

4 Customizable

- We develop special-purpose commands and software upon request.

5 Modestly Priced

- Competitive pricing lower than other PLC-based systems.

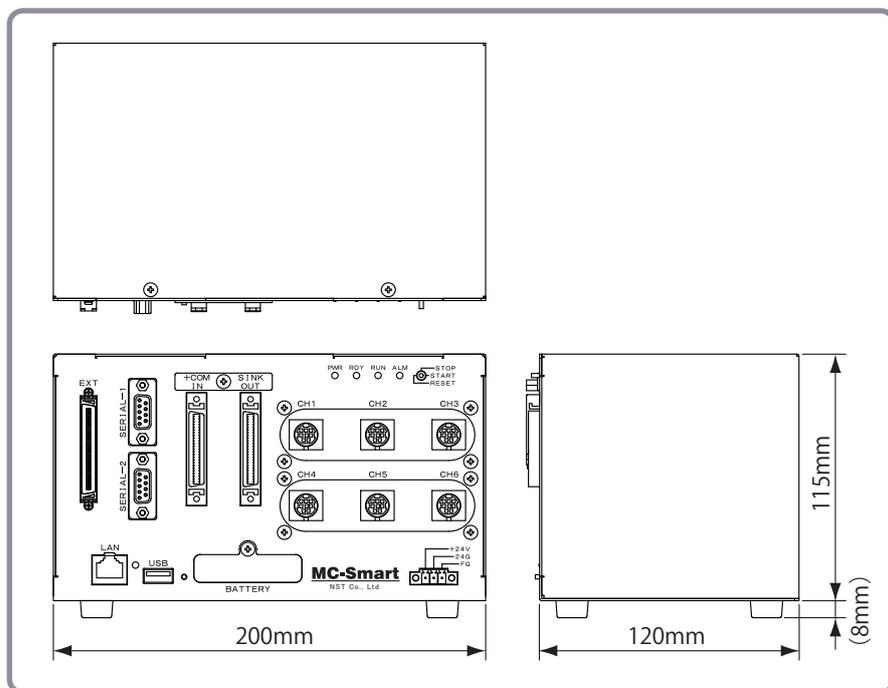
6 Highly Scalable

- A maximum of 255 optional boards can be connected with up to 306 channels of pulse-counting input.
- Each gauging scaling boards supports 6 channels.
- Each I/O board has 32-input and 32-output points (sink type only).
- Each motor control board drives 4 axis.
- Each analog input board supports 3 channels (16-bit resolution).
- Each analog voltage/current output board supports 6 channels 14-bit resolution).
- Each communication board supports 4 channels (RS-232C or RS-422).

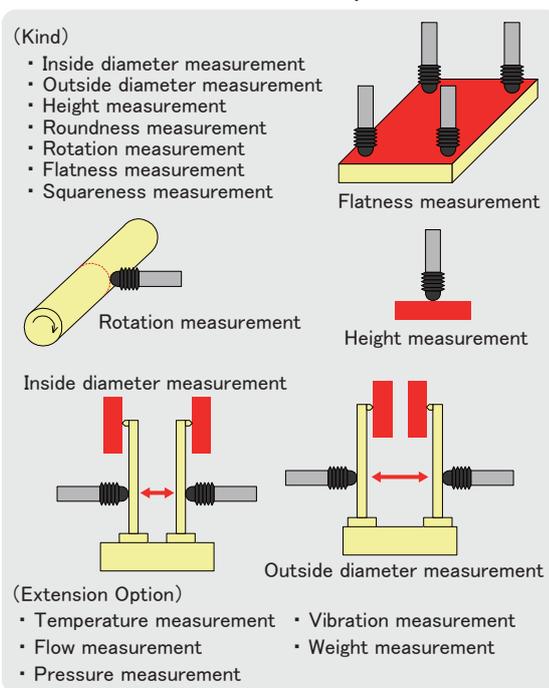
Standard specification

Pulse count input	Digital gauge / linear scale 6ch (RS422 conformity phase A and B input) Connector: Product made HOSHIDEN TCS6180-0110177
Interface	<ul style="list-style-type: none"> ① RS232C serial communication interface (change to RS422 is possible) : 2 port D-SUB 9pin connector ② Wide use parallel input and output The 32 number of inputs +COM and -COM change are possible (Factory setting) The 32 number of outputs sink / source change is possible (Factory setting) ③ Ethernet: 1ch(10/100BASE) ④ USB port 1ch: 1ch(2.0 conformity)
The number of program step	20,000 steps (Flash memory)
Variable	99,999 pieces (15,000 pieces are the object for battery backups)
External memory	USB Flash memory (Backup of the variable)
Response speed	Minimum phase difference 50nsec (20m/sec, In the case of 0.0001mm of resolution)
Counter capacity	32bit(6ch)
Data sampling time	6ch 2msec (less than 1msec of high-speed sampling)
Power supply voltage	DC24V±10% 30W
Option	External bus is used and a maximum of 225 option base connection is possible. 32 input and output, Gauge / Scale 6ch, Communication 4ch(RS232C+422), 4 axis of motor control, Analog input 3ch (16 bits), Analog output 6ch (14 bits)
Weight	1.5kg

Outside dimension (Normal size)



Measurement example



Development / manufacture

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