

WM3 Digital wattmeter

Specification

| Model | WM3 | |
|-----------------------------|--|--|
| Appearance |  | |
| WXHxD(mm) | 96 X 48 X 100 | |
| Measurement method | Period measuring type | |
| Input voltage | 0 – 220 V a.c. | |
| Displaying period | 0.1 ~ 2 sec | |
| Power factor | 80 ~ 100 % | |
| Response speed | Approx. 2 sec (max range) | |
| max displayable digit | 4 digits (-1999 ~ 9999) | |
| Displaying part | 7 segments LED | |
| Accuracy | Less than ± 5 Digit | |
| Insulation resistance | Min 100 MΩ(500 V d.c.) | |
| Dielectric strength | 1500 V a.c. for 1 min (power terminal – input terminal) | |
| Communication output(RS485) | Able to set the address from 00 ~ 99 and able to select the baud rate of series transfer. (Transfer speed : 1200, 2400, 4800, 9600, 19200 bps) | |
| Current output (transfer) | Yields the 4 – 20 mA d.c. output corresponding to the current indication value. (Resolving power: 12,000) | |
| Transistor output | PNP/NPN open collector output (12 – 24 V d.c. 50 mA max) | |
| Relay output | 1 a X 3 contact (HI, GO, LO), (220 V a.c. 5 A) | |
| Power supply voltage | 100 – 240 V a.c. 50 – 60 Hz (Dual usage) | |
| Voltage fluctuation | -15 ~ 10 % of the power supply voltage | |
| Power consumption | Approx. 5 VA | |
| Weight | 300 g | |
| Ambient temperature | 0 ~ 50 °C | |
| Ambient humidity | 35 ~ 85 % RH | |
| Storage temperature | -10 ~ 70 °C | |
| Vibration resistance | 10 – 55 Hz single amplitude, to the each direction of X, Y, Z for 2 hour | |
| Shock resistance | 300 m/s ² , to the 6 direction of X, Y, Z and each 3 times | |

Suffix code

| Model | Code | Information |
|---------------------|--|--|
| WM3- | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Digital wattmeter (DIN 96 X 48 mm) |
| Phase and wire | 1 | Single phase 2 wire type (0 – 220 V a.c.) |
| Input specification | 01 | Refer to the input specification (Refer to the code) |
| Output (Optional) | N | Only for displaying |
| | 0 | Relay (HI, GO, LO), 4 – 20 mA d.c. |
| | 1 | Relay (HI, GO, LO) |
| | 2 | NPN Open collector (HI, GO, LO), 4 – 20 mA d.c. |
| | 3 | PNP Open collector (HI, GO, LO), 4 – 20 mA d.c. |
| | 4 | NPN Open collector (HI, GO, LO), RS485 |
| | 5 | PNP Open collector (HI, GO, LO), RS485 |

Panel Meter

MP3 series Digital multimeter

Specification

| Model | MP3 |
|-------------------------------|---|
| Appearance |  CE <Front Plate Type> <Front Acrylic Type> |
| W×H×D (mm) | 96 X 48 X 112 |
| Power Supply | 100 – 240 V a.c. 50 – 60 Hz voltage fluctuation rate ±10 % |
| Power Consumption | 5 VA |
| Display | 7 Segment LED Display |
| Insulation Resistance | 100 MΩ minimum (at 500 V d.c.) between external terminal and case |
| Dielectric Strength | 2000 V a.c. minimum for 1 minute between external terminal and case |
| Noise Immunity | By noise simulator, square-shaped wave noise, pulse width 1 μs, ±3000 V |
| Vibration Resistance | Malfunction Resistance : 10 – 55 Hz Single amplitude 0.5 mm X-Y-Z each direction for 1 hour Mechanical Durability : 10 – 55 Hz Single amplitude 0.75 mm X-Y-Z each direction for 2 hours |
| Shock Resistance | Malfunction Resistance : 100 % for 3 times each in X-Y-Z direction, Mechanical Durability: 300 % for 3 times each in X-Y-Z direction |
| Operating Ambient temperature | –10 ~ 55 °C (without condensation) |
| Operating Ambient Humidity | 35 ~ 85 % RH |
| Operating Circumstance | With no corrosive gas |
| Storage Ambient Temperature | –20 ~ 65 °C (without condensation) |
| Relay Life Expectancy | Mechanical: More than 20,000,000 times, Electrical: More than 100,000 times |

Suffix code

| Model | Code | Information |
|-------------------|---|---|
| MP3- | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Digital Multi Panelmeter 96 x 48 mm |
| Displaying digit | 4 | 4 digits (9999) |
| Input type | DV | DC VOLTAGE |
| | DA | DC AMPERE |
| | AV | AC VOLTAGE |
| | AA | AC AMPERE |
| | AVR | AC VOLTAGE (RMS) ※Option output can be ordered only N type |
| | AAR | AC AMPERE (RMS) ※Option output can be ordered only N type |
| Output (Optional) | N | Display only |
| | 0 | Relay Output (HI,GO,LO) + Current Output (4 – 20 mA) |
| | 1 | Relay Output (HI, GO, LO) |
| | 2 | NPN Open Collector Output (HI,GO,LO) + BCD Output (Dynamic) |
| | 3 | PNP Open Collector Output (HI,GO,LO) + BCD Output (Dynamic) |
| | 4 | NPN Open Collector Output (HI,GO,LO) + Current Output (4 – 20 mA) |
| | 5 | PNP Open Collector Output (HI,GO,LO) + Current Output (4 – 20 mA) |
| | 6 | NPN Open Collector Output (HI,GO,LO) + Serial Output (lowspeed) |
| | 7 | PNP Open Collector Output (HI,GO,LO) + Serial Output (lowspeed) |
| | 8 | NPN Open Collector Output (HI,GO,LO) + RS485 Output |
| | 9 | PNP Open Collector Output (HI,GO,LO) + RS485 Output |
| | 10 | BCD Output (Static) |
| 11 | Relay Output (HI,GO,LO) + RS485 Output | |
| Front panel type | A | Front Acrylic type (100 – 240 V a.c.) |
| | B | Front Plate type (100 – 240 V a.c.) |
| | C | Front Plate type (24 V d.c.) ※Only N type is available |

MP6 series Digital multimeter

Specification

| Model | MP6 |
|-------------------------------|---|
| Appearance |  <p>CE</p> <p>Temperature Controller</p> <p>Recorder</p> <p>Digital Counter</p> <p>Timer</p> <p>Analogue Timer</p> <p>Panel Meter</p> <p>Multi Pulse Meter</p> <p>Proximity Sensor</p> <p>Photo Sensor</p> <p>Rotary Encoder</p> <p>Thyristor Power Regulator</p> <p>Solid State Relay</p> <p>Power Supply</p> <p>Control Switch</p> <p>Push Button / Main Switch</p> <p>Cam Switch / Limit Switch</p> <p>Micro / Hoist Switch</p> <p>Foot / Mono Lever Switch</p> <p>Signal Light</p> <p>Terminal Block / Power Buzzer / Fuse Holder / Control Box</p> |
| W×H×D (mm) | 72 X 36 X 100 |
| Power Supply | 100 – 240 V a.c. 50 – 60 Hz voltage fluctuation rate ±10 % |
| Power Consumption | Approx. 4 VA |
| Display | 7 Segment LED Display |
| Insulation Resistance | 100 MΩ minimum (at 500 V d.c.) between external terminal and case |
| Dielectric Strength | 2000 V a.c. minimum for 1 minute between external terminal and case |
| Noise Immunity | By noise simulator, square-shaped wave noise, pulse width 1 μs, ±3000 V |
| Vibration Resistance | Malfunaction Resistance : 10 – 55 Hz Single amplitude 0,5 mm X-Y-Z each direction for 1 hour Mechanical Durability : 10 – 55 Hz Single amplitude 0,75 mm X-Y-Z each direction for 2 hours |
| Shock Resistance | Malfunaction Resistance : 100 % for 3 times each in X-Y-Z direction, Mechanical Durability: 300 % for 3 times each in X-Y-Z direction |
| Operating Ambient temperature | -10 ~ 55 °C(without condensation) |
| Operating Ambient Humidity | 35 ~ 85 % RH |
| Operating Circumstance | With no corrosive gas |
| Storage Ambient Temperature | -20 ~ 65 °C(without condensation) |
| Relay Life Expectancy | Mechanical: More than 20,000,000 times, Electrical: More than 100,000 times |

Suffix code

| Model | Code | Information |
|-------------------|--|--|
| MP6- | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Digital Multi Panelmeter 72 x 36 mm |
| Displaying digit | 4 | 4 digits (9999) |
| Input type | DV | DC VOLTAGE |
| | DA | DC AMPERE |
| | AV | AC VOLTAGE |
| | AA | AC AMPERE |
| | AVR | AC VOLTAGE (RMS) ※Option output can be ordered only N type |
| | AAR | AC AMPERE (RMS) ※Option output can be ordered only N type |
| Output (Optional) | N | Display only |
| | 0 | Relay, Current output (4 – 20 mA d.c.) |
| | 1 | Relay |
| | 4 | NPN Open Collector , Current output (4 – 20 mA) |
| | 5 | PNP Open Collector , Current output (4 – 20 mA) |
| Front panel type | A | Front Acrylic type (100 – 240 V a.c.) |
| | B | Front Plate type (100 – 240 V a.c.) |
| | C | Front Plate type (24 V d.c.) |

Panel Meter

MP3-4H, MP6-4H Digital frequency meter

Specification

| Model | MP3-4H | MP6-4H |
|-------------------------------------|---|---|
| Appearance |  |  |
| W X H X D (mm) | 96 X 48 X 100 | 72 X 36 X 100 |
| Input signal | AC (voltage, current), DC (voltage, current) | |
| A/D converting method | Double integral method | |
| Sampling time | AC type : 300 ms | |
| Response speed | Approx. 2sec (max range) | |
| Max displayable digit | 4 digits (-1999~9999) | |
| Displaying unit | 7 segments LED | |
| Accuracy | AC : below ± 5 Digit, DC : below ± 2 Digit | |
| Insulation resistance | Min 100 M Ω (500 V d.c.) | |
| Dielectric strength | 1500 V a.c. for 1 min (power terminal - input terminal) | |
| Communication output (RS485) | It can set address from 00 to 99 and it can select modulation rate of direct retransmission. (Retransmission speed : 1200, 2400, 4800, 9600, 19200 bps) | |
| Current output (Retransmission) | Yields 4~20mA d.c. output regarding current indicated value. (Resolving power : 12,000) | |
| Transistor output | PNP/NPN open collector output (12 - 24 V d.c. 50 mA max) | |
| Relay output | 1 a X 3 contacts (HI, GO, LO), (220 V a.c. 5 A) | |
| Power supply voltage | 100 - 240 V a.c., 50 - 60 Hz (dual usage) | |
| Allowable voltage fluctuation range | 85 - 264 V a.c. | |
| Power consumption | Approx. 5 VA | Approx. 5 VA |
| Weight(g) | Approx. 180 | |
| Ambient temperature | 0 ~ 50 °C | |
| Ambient humidity | 35 ~ 85 % RH | |
| Storage temperature | -10 ~ 70 °C | |
| Vibration resistance | 10 - 55 Hz single amplitude X, Y, Z each direction for 2 hours | |
| Shock resistance | 300 m/s ² , X, Y, Z 6 directions each 3 times | |

Suffix code

| Model | Code | Information |
|-------------------|---|---|
| MP | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Digital frequency meter |
| Dimension | 3 | Dimension 96×48 mm |
| | 6 | Dimension 72×36 mm |
| Displayable digit | 4 | 4 digits (9999) |
| Output (Optional) | N | Only for display |
| | 0 | Relay output (HI, GO, LO) + current output (4 - 20 mA) |
| | 1 | Relay output (HI, GO, LO) |
| | 2 | NPN TR output (HI, GO, LO) + current output (4 - 20 mA) |
| | 3 | PNP TR output (HI, GO, LO) + current output (4 - 20 mA) |
| | 4 | NPN TR output (HI, GO, LO) + RS485output |
| Output (Optional) | 5 | PNP TR output (HI, GO, LO) + RS485output |
| | H | AC input frequency measurement |

■ BS series Exclusive digital voltmeter-Ammeter

Specification

| Model | BS3 | BS6 | BS1 |
|--------------------------|---|--|---|
| Appearance |  |  |  |
| WXHXD(mm) | 96 X 48 X 100 | 72 X 36 X 100 | 48 X 24 X 100 |
| Function | Indicator | | |
| Power supply | 100 – 220 V a.c. 50 – 60 Hz (voltage variation rate ±10 %) | | |
| Display unit | V · mV · A · mA · μA | | |
| Max. display range | 1999 (3½ Digit) | | |
| Input signal | AC voltage, AC current, DC voltage, DC current, Instrumentation signal | | |
| A/D converter | 2 dual integration | | |
| Sampling cycle | 300 ms | | |
| Response speed | Approx. 2 sec. (Max. range) | | |
| Insulation resistance | Min. 100 MΩ at 500 V d.c. between terminals | | |
| Dielectric strength | 1500 V a.c. for 1 minute between power and external terminals | | |
| Vibration | Mechanical Durability | 10 – 55 Hz each direction for 1 hour | |
| | Malfunction Resistance | 10 – 55 Hz each direction for 10 minutes | |
| Shock | Mechanical Durability | 300 % X-Y-Z each direction 3 times (Approx. 30G) | |
| | Malfunction Resistance | 100 % X-Y-Z each direction 3 times (Approx. 10G) | |
| Ambient Temp. & Humidity | 0 ~ 50 °C/ 35 ~ 85 % RH | | |

Suffix code

| Model | Code | Information | |
|-------------------|-------|---|-------------------|
| BS | □□□□□ | Digital panel meter | |
| Dimension | 6 | 72 X 36 mm | |
| | 3 | 96 X 48 mm | |
| | 1 | 48 X 24 mm | |
| Output | N | Only for indication | |
| Input type | A | 10 | AC voltmeter (AC) |
| | | 20 | AC ammeter (AC) |
| | | 10 | DC voltmeter(DC) |
| | D | 20 | DC ammeter(DC) |
| | | 11 | DC voltmeter |
| | | 21 | DC ammeter |
| Measurement range | 1 | Refer to the measurement range code : BS3-NA101 (1,999 V) | |

※Mode: range code of BS6 and BS3 are different

Measurement range

■ AC current (model: BS3, BS6, BS1)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|---------------|-------------------|-----------------|--|-----------------------------|
| BS □ – NA201 | 19,99 mA | 10 μA | 10 Ω | 50 mA |
| BS □ – NA202 | 199,9 mA | 100 μA | 1 Ω | 300 mA |
| BS □ – NA203 | 1,999 A | 1 mA | 0,1 Ω | 3 A |
| BS □ – NA204 | 5,00 A | 10 mA | 40 MΩ | 5,1 A |
| BS □ – NA205 | 19,99 A | 10 mA | Use transformer (Secondary current 5 A) | |
| BS □ – NA206 | 30,0 A | 100 mA | | |
| BS □ – NA207 | 100,0 A | 100 mA | | |
| BS □ – NA208 | 150,0 A | 100 mA | | |
| BS □ – NA209 | 199,9 A | 100 mA | | |
| BS □ – NA2010 | 300 A | 1 A | | |
| BS □ – NA2011 | 1999 A | 1 A | | |

■ DC voltage (model: BS3, BS6, BS1)

| Model | Input range | Display range | Input impedance | Allowable max input voltage |
|------------|--------------|---------------|-----------------|-----------------------------|
| BS □-ND111 | 1 – 5 V d.c. | 50,0 | 500 kΩ | 100 V |
| BS □-ND112 | | 100,0 | 500 kΩ | 100 V |
| BS □-ND113 | | 199,9 | 500 kΩ | 100 V |

Input Measurement range 0 – 10 V d.c. (optional)

■ AC voltage (model: BS3)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|-----------|-------------------|-----------------|-----------------|-----------------------------|
| BS3-NA101 | 1,999 V | 1 mV | 100 kΩ | 10 V |
| BS3-NA102 | 19,99 V | 10 mV | 1 MΩ | 50 V |
| BS3-NA103 | 199,9 V | 100 mV | 10 MΩ | 300 V |
| BS3-NA104 | 400 V | 1 V | 10 MΩ | 500 V |
| BS6-NA105 | 400 V | 1 V | 10 MΩ | 500 V |

■ AC voltage (model: BS6, BS1)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|------------|-------------------|-----------------|-----------------|-----------------------------|
| BS □-NA101 | 199,9 mV | 0,1 mV | 10 kΩ | 10 V |
| BS □-NA102 | 1,999 V | 1 mV | 100 kΩ | 10 V |
| BS □-NA103 | 19,99 V | 10 mV | 1 MΩ | 50 V |
| BS □-NA104 | 199,9 V | 100 mV | 10 MΩ | 300 V |
| BS6-NA105 | 400 V | 1 V | 10 MΩ | 500 V |
| BS1-NA105 | 500 V | | | |

※BS1-NA105 range : 500 V

■ DC ammeter (model: BS3, BS6, BS1)

| Model | Input range | Display range | Input impedance | Allowable max input voltage |
|------------|----------------|---------------|-----------------|-----------------------------|
| BS □-ND211 | 4 – 20 mA d.c. | 50,0 | 25 Ω | 150 mA |
| BS □-ND212 | | 100,0 | 50 Ω | 150 mA |
| BS □-ND213 | | 199,9 | 100 Ω | 150 mA |

■ DC current (model: BS3, BS6, BS1)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|------------|-------------------|-----------------|-----------------|-----------------------------|
| BS □-ND101 | 199,9 mV | 0,1 mV | 10 kΩ | 70 V |
| BS □-ND102 | 1,999 V | 1 mV | 100 kΩ | 100 V |
| BS □-ND103 | 19,99 V | 10 mV | 1 MΩ | 200 V |
| BS □-ND104 | 199,9 V | 100 mV | 10 MΩ | 300 V |
| BS □-ND105 | 500 V | 1 V | 10 MΩ | 600 V |

■ DC current (model: BS6)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|-----------|-------------------|-----------------|--|-----------------------------|
| BS6-ND201 | 199,9 μA | 0,1 μA | 100 Ω | 1 mA |
| BS6-ND202 | 1,999 mA | 1 μA | 10 Ω | 50 mA |
| BS6-ND203 | 19,99 mA | 10 μA | 1 Ω | 150 mA |
| BS6-ND204 | 199,9 mA | 100 μA | 0,1 Ω | 300 mA |
| BS6-ND205 | 5,00 A | 10 mA | 400 MΩ | 5,1 A |
| BS6-ND206 | 19,99 A | 10 mA | Use shunt (Secondary voltage 50 mV) | |
| BS6-ND207 | 199,9 A | 100 mA | | |
| BS6-ND208 | 1999 A | 1 A | | |

■ DC current (model: BS1)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|-----------|-------------------|-----------------|--|-----------------------------|
| BS1-ND201 | 199,9 μA | 0,1 μA | 1 kΩ | 50 mA |
| BS1-ND202 | 1,999 mA | 1 μA | 100 Ω | 150 mA |
| BS1-ND203 | 19,99 mA | 10 μA | 10 Ω | 300 mA |
| BS1-ND204 | 199,9 mA | 100 μA | 1 Ω | 3 A |
| BS1-ND205 | 1,999 A | 1 mA | 0,1 Ω | 3 A |
| BS1-ND206 | 5,00 A | 10 mA | 0,01 Ω | 5 A |
| BS1-ND207 | 19,99 A | 10 mA | Use shunt (Secondary voltage 50 mV) | |
| BS1-ND208 | 199,9 A | 100 mA | | |
| BS1-ND209 | 1999 A | 1 A | | |

■ DC ammeter current (model: BS3)

| Model | Measurement range | Resolving power | Input impedance | Allowable max input voltage |
|-----------|-------------------|-----------------|--|-----------------------------|
| BS3-ND201 | 1,999 mA | 1 μA | 100 Ω | 50 mA |
| BS3-ND202 | 19,99 mA | 10 μA | 10 Ω | 150 mA |
| BS3-ND203 | 199,9 mA | 100 μA | 1 Ω | 300 mA |
| BS3-ND204 | 1,999 A | 1 mA | 0,1 Ω | 3 A |
| BS3-ND205 | 5,00 A | 10 mA | 0,01 Ω | 5 A |
| BS3-ND206 | 19,99 A | 10 mA | Use shunt (Secondary voltage 50 mV) | |
| BS3-ND207 | 199,9 A | 100 mA | | |
| BS3-ND208 | 1999 A | 1 A | | |

Panel Meter

BA1 Digital Voltmeter-Ammeter

Specification

| Model | BA1 | |
|--------------------------|--|---|
| Appearance |  | |
| WXHXD(mm) | 48 X 24 X 53 | |
| Function | Display | |
| Power supply | 5 V d.c., 12 – 24 V d.c. | |
| Display unit | – | |
| Max. range | ±1999 (3½Digit) | |
| Input signal | DC voltage, DC current, Instrumentation signal | |
| A/D converter | 2 dual integration | |
| Sampling cycle | 2.5 times / sec. | |
| Response speed | Approx. 2.5sec. | |
| Insulation resistance | Min, 100 MΩ at 500 V d.c. between external terminal and case | |
| Dielectric strength | 1500 V a.c. for 1 minute between power and external terminals | |
| Vibration | Malfunction Resistance | 10 – 55 Hz 0.76 mm X-Y-Z each direction for 2 hours |
| | Mechanical Durability | 2 – 55 Hz X-Y-Z each direction for 10 minutes |
| Shock | Malfunction Resistance | 100 % each direction 3 times (Approx. 10G) |
| | Mechanical Durability | 300 % each direction 3 times (Approx. 30G) |
| Ambient temp. & Humidity | 0 ~ 50 °C / 35 ~ 85 % RH (Without condensation) | |

Suffix code

| Model | Code | Information |
|----------------------|---|--------------------------------|
| BA1– | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Mini DC indicator (48 X 24 mm) |
| Input | D 10 | DC voltage (voltmeter) |
| | 20 | DC current (ammeter) |
| | 11 | DC voltmeter (1 – 5 V d.c.) |
| | 21 | DC ammeter (4 – 20 mA d.c.) |
| Range code | | Refer to the Measurement range |
| Power supply voltage | – | 5 V d.c. |
| | A | 12 – 24 V d.c. |

Measurement range

DC voltage

| Model | Measurement range | Resolving power | Input impedance | Max allowable input voltage |
|----------|-------------------|-----------------|-----------------|-----------------------------|
| BA1–D101 | 199.9 mV | 100 μV | 100 kΩ | 70 V |
| BA1–D102 | 1,999 V | 1 mV | 1 MΩ | 100 V |
| BA1–D103 | 19.99 V | 10 mV | 1 MΩ | 250 V |
| BA1–D104 | 199.9 V | 100 mV | 10 MΩ | 300 V |
| BA1–D111 | 1 – 5 V d.c. | 50.0 | 100 kΩ | 100 V |
| BA1–D112 | | 100.0 | 100 kΩ | 100 V |
| BA1–D113 | | 199.9 | 100 kΩ | 100 V |

※ Degree : Indicate value of ±0.2 % ±1 digit (23 °C ±5 °C)

DC current

| Model | Measurement range | Resolving power | Input impedance | Max allowable input voltage |
|----------|-------------------|-----------------|--|-----------------------------|
| BA1–D201 | 199.9 μA | 0.1 μA | 1 kΩ | 10 mA |
| BA1–D202 | 1,999 mA | 1 μA | 100 Ω | 50 mA |
| BA1–D203 | 19.99 mA | 10 μA | 10 Ω | 150 mA |
| BA1–D204 | 199.9 mA | 100 μA | 1 Ω | 500 mA |
| BA1–D205 | 1,999 A | 1 mA | 0.01 Ω | 5 A |
| BA1–D206 | 19.99 A | 10 mA | Use shunt (secondary voltage 50 mV) | |
| BA1–D207 | 199.9 A | 100 mA | | |
| BA1–D208 | 1999 A | 1 A | | |
| BA1–D211 | 4 – 20 mA d.c. | 50.0 | 25 Ω | 150 mA |
| BA1–D212 | | 100.0 | 50 Ω | 150 mA |
| BA1–D213 | | 199.9 | 100 Ω | 150 mA |

※ Degree : Indicate value of ±0.2 % ±1 digit (23 °C ±5 °C)

HLP1 Non voltage digital scale meter

Specification

| Model | HLP1 |
|----------------------|--|
| Appearance |  |
| W X H X D (mm) | 48 X 25 X 50 |
| Power supply voltage | Non-voltage type |
| Ambient temperature | –5 ~ 50 °C |
| Ambient humidity | 20 ~ 90 % RH |
| Storage temperature | –25 ~ 70 °C |
| Vibration resistance | 10 ~ 55 Hz Single amplitude for 2 hour each in X, Y and Z direction |
| Shock resistance | 300 m/s ² , 3 times each in X, Y and Z 6 direction |