A new evolution in digital pressure gauges

KDM30-α NEW

High accuracy, digital pressure gauge

KRONE CORPORATION



High Performance

Equipped with Versatile Features (Optional)

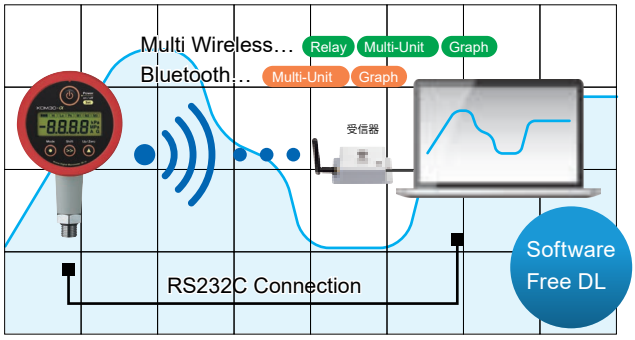
- Peak / Valley Hold
- Loop-Break Alarm — Current Output
- Data Logging (*1) — ~8,000 Logs
- Digital Out (*2) — RS232C
- Audible Alarm (*2)
- Contact Out — Hi / Lo / Go
- Multi-Unit Display
- Analog Out — 4-20mA, 1-5VDC (*2)
- Wireless Out (*2) — Bluetooth(BLE), Multi Wireless

(*1) Wireless / RS Output Models Only
(*2) Optional Functions

Available with Wired or Wireless Connection

Manage Pressure Readings on a PC (Optional)

RS232C : Bidirectional communication for PC config.
Bluetooth(BLE) : Bluetooth (BLE): 2.4GHz, multi-unit, energy-saving.
Multi Wireless : Multi Wireless: 920MHz, multi-unit, relay compatible.



Flexible Display

330°Rotating Display for Optimal Visibility

The patented flexible display mechanism allows both the display unit and main body to rotate up to 330°. This ensures the screen can be adjusted to an optimal viewing angle regardless of the pipe's orientation, significantly reducing the time and effort required by operators and installers.

(Patents: JP 4967093, 5909740 / US 8.468.893 / KR 10-2010-7026661)

IP65 Compliant (Waterproof)

Dust, Drip & Shockproof Cover

A silicone protective cover designed to shield against water droplets, dust, and physical impacts. Two types are available, compatible with both battery-powered and external power models.



[Parts number]　* Please specify the code number when placing your order.

Type	[1] Pressure range / Type	[2] Battery type	[3] Flont color	[4] Option / Output
KDM30α	**Gauge** 35kPaG　1MPaG　35MPaG 100kPaG　5MPaG　70MPaG 500kPaG　10MPaG **Absolute**　**Compound** 100kPaA　-100~100kPaC 200kPaA　-100~500kPaC -0.1~1MPaC	B:006P Battery (9V) M:24VDC A:100VAC	BL:Blue YL:Yellow RE:Red	**Battery model** X:BuzzerT:Bluetooth(BLE)　W:Multi Wireless **External power supply model** X:Buzzer　R:RS232C V:Analog 1-5VDC　XR:Buzzer & RS232C T:Bluetooth(BLE)　XV:Buzzer & 1-5VDC W:Multi Wireless)

Parts number EX.	①	②	③	④
KDM30α	Compound -100～500kPaC	24VDC	Yellow	Buzzer & RS232C

Parts number EX. [**KDM30α－500kPaC－M－YL－XR**]

Specification

<Over pressure>
Pressure range under 1MPa - Safe to 3times set pressure limit.
Pressure range above 5MPa - Safe to 2times set pressure limit.
<Accuracy> +/-0.25%F.S.(Linearity, Hysteresis, and Repeatability are included)
<Medium> Dry gases and liquid (non-corrode away to SUS316L=1.4435)
<Material>
Pressure port: SUS316 / O-ring (Standard): NBR / Case: ABS
<Thermal Effect>
Thermal zero shift: +/-0.04%F.S./℃ / Thermal span shift: +/-0.04%F.S./℃
<Long-term stability>
Zero: +/-0.1%F.S/year (Typical) / Span: +/-0.1%F.S/year (Typical)
<Endurance> Over 1 million
<Operating temperature range> -20 to 70℃ (35kPa=0 to 50, without Freeze)
<Storage temperature range> -20 to 85℃ (without Freeze and condensation)
<Pressure port> G1/4 male
<Weight> Approximately 180g (including battery)

Electricity

<Power supply>
Battery model: 006P battery (9V) 1pcs (Approx. 3 months)
*Manganese batteries (Not recommended)
External model: 24VDC（±10%） 1W
<Display>
4 digit LED display (Character height is 11mm)
Backlight (Duration of illumination adjustable)
Battery Level Display, Hi/Lo/Peak display
<Electricity for External model>
Analogue output : 4-20mA (Option 1-5VDC)　*Not available for wireless output
Alarm output : Hi/Lo/Good Open collector (24V/50mA)
　　It's possible to select positive logic or negative-true logic.
　　*Not available for wireless output

Wireless Communication Specifications (Optional)

<Frequency Range> Multi Wireless : 920MHz / Bluetooth (BLE) : 2.4GHz

Option

Please contact us for details

1. Documentation
   Inspection Certificate / Calibration Certificate / Traceability Chart / Certificate of Reference Standard
2. Adapters & Fittings
   PT 1/4 Male (Brass / SUS316)
   PT 1/8 Male (Brass / SUS316)
   PT 3/8 Male (SUS316)
   Stainless Steel Fitting for φ4mm Tubing


Adapters & Fittings

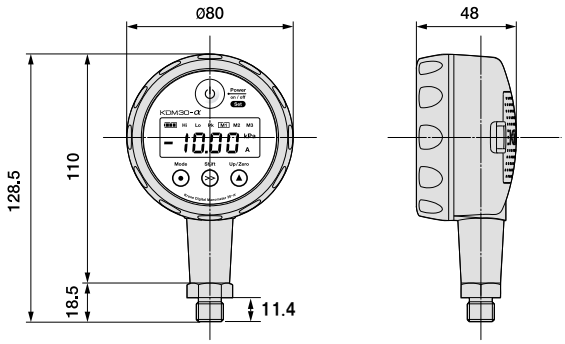
3. Weatherproof Box
   Outdoor Compatible (IP65)
4. Internal Pressure Puncture Needle
   Complete Set: Needle, Rubber Seal & Nut
5. Storage Case
   Dedicated KDM30 Case
6. Heat Sink
   High-Temperature Media Compatible


Weatherproof Box (IP65)


Heat Sink

Dimensions

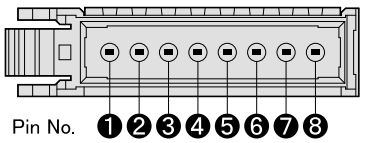
*( )Dimention of compound model



Connector connection for External model



Using connector type: E-CON 1473571-8(AMP)
Engagement connector type: E-CON 1473562-8(AMP)



Pin1: Analog +output　Pin2: Analog -output
Pin3: Hi output　Pin4: Lo output
Pin5: Good output　Pin6: Power supply 12V
Pin7: GND　Pin8: FG

Accessory

1. Battery model: 006P 9V battery
2. External model: connecting cable (1m)
3. External model with adapter: Connecting cable (1m) with adapter jack, 100V AC adapter
4. Set: Includes three KDM30 units plus optional accessories (fittings, batteries, etc.) in a dedicated case.


*Photo shows Configuration 3.


*Photo shows Configuration 4.

Other Functions

Auto Power-Off (Selectable interval) / Selectable Sampling Interval (From 0.1 sec)
Selectable Display Rate / Averaging Count / Peak & Valley Hold / One-Touch Zero Adjustment
Digital Output & Wireless Communication (Optional) / Data Logger (Approx. 8,000 logs)
Bidirectional RS232C Communication / Unit Conversion

⚠ To ensure safe and accurate operation, read the instruction manual carefully before use.
Specifications are subject to change without notice.
⚠ *The BLE/Multi-Wireless option in this catalog complies with Japanese Radio Law and is certified for use in Japan only.

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