

MagneW 3000 PLUS Smart Electromagnetic Flowmeter Smart Calibrator Model MGZ14

OVERVIEW

The model MGZ Smart Calibrator is used for high-accuracy adjusting and check of electromagnetic flowmeters. The calibrator performs by supplying a signal voltage to the signal input terminal of the converter, and monitoring feedback.

- Zero-span adjustment
- Linearity check using 25%-step output corresponding to the set span
- Converter accuracy check at any flow rate and velocity
- Gain calibration

FEATURES

- The model MGZ can calibrate any type of electromagnetic flowmeter manufactured by Yamatake (see below).
MagneW series.....(NNA / NNB / NNX)
MagneW3000 series.....(KIC / KIX / KIF)
SMT3000 series(SMW / SMF / SMT)
MagneW3000 PLUS series..(MG□)
MagneW Two-wire PLUS series (MTG)
- The model MGZ is small and light, being carried as a hand-held calibrator. Its small size minimizes the space needed for calibration.
- Battery powered calibrator
- Model MGZ complies with CE marking system.



FUNCTIONAL SPECIFICATIONS

Power supply

Four AA dry batteries

Recommended adapter SWA0502 (manufactured by Tamura Seisakusho) when 5 V DC (AC adapter) is used.

Input

Excitation current input for output synchronization (input by excitation current terminal (X and Y) or MagneW converter to be calibrated)

Output

Simulated signal voltage

Accessories

Dry batteries, signal cable, excitation cable, carrying case

Ambient temperature limits

0 to 40°C

Ambient humidity limits

10 to 90% RH

PHYSICAL SPECIFICATIONS

Case

ABS resin

Battery life

10 hours continuous operation if recommended alkali dry batteries used

Weight

Approx. 300 g (excluding batteries)

PERFORMANCE SPECIFICATIONS**Repeatability**

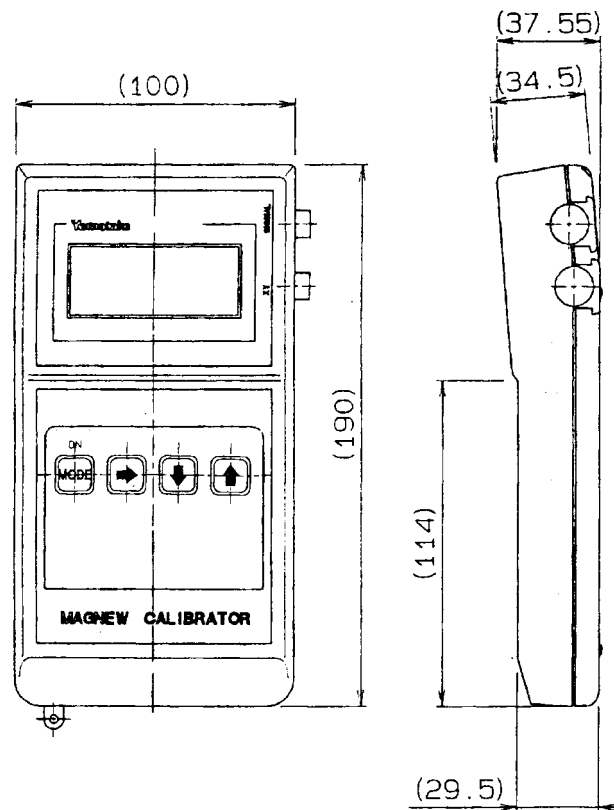
±0.01% of the rate

Set value accuracy

V: set span (velocity/s)

± 0.2% of rate ($5 \leq V \leq 10$ m/s)± 0.4% of rate ($0.05 \leq V \leq 5$ m/s)± 0.9% of rate ($0.01 \leq V$)**MODEL SELECTION****MGZ14 - X - X - Y or MGZ14 - X - X - YB**

*B: with traceability certificate.

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