

Data Sheet

GS 8 B

Calibrated Flow Simulator

… for Electromagnetic Flowmeters

System Description

Introduction

The GS 8B calibrated flow simulator provides calibrated feedback to the electromagnetic meter converter that simulates specific calibrated flow conditions in place of the meter flow tube. It has 5 selectable simulated flow range settings plus zero flow and is usable with many of the KROHNE 4-wire converters. When connected to the converter in place of the flow tube, it provides a precise, consistent signal to the converter that is representative of specific flow conditions.

Operational description

Similar to the meter flow tube, the GS 8 B is a passive device that derives its operating power from the converter. Depending on the range selected, the GS 8 B then delivers a precision signal back to the converter that simulates a specific, calculable flow condition in the flow tube. This instrument is fabricated of high quality, precision components to provide stable, reliable performance.

Each instrument is factory calibrated to verify the accuracy of its operation.

A zero position on the range switch simulates zero flow, which allows the determination of any zero offset which may be present. This can be used to zero the converter electronics or to provide a computational null for the simulated flows.

Compatible converters

The GS 8 B can be used with the following KROHNE electromagnetic flowmeter converters for verification of converter and electronic systems operation:

- ✓ IFC 300 C/F/W
- ✓ IFC 010, IFC 020, IFC 090, IFC 110, IFC 080
- ✓ SC 100 A, AS
- ✓ SC 80 A, AS
- ✓ T 900 F, 900 F/NF, T 900 E
- ✓ F 200
- ✓ IFC 110 PF & SC 100 PF (As full pipe simulation)
- ✓ All KROHNE signal converters where reference is made to the GS 8 in their installation and operating instructions (Except as noted in Incompatible converters).

Incompatible converters

The GS 8 B is **NOT** suitable for the following older KROHNE signal converters:

- ✘ IFC 040, IFM 4042
- ✘ TIV 50, TIV 60
- ✘ SC 150

Items Included

- GS 8 B calibrated flow simulator
- Connecting cable M (for remote installations)
- Connecting cable Z (for older converter compact meter installations)
- Connecting cable Z3 (for use with IFC 300 Compact and Wall mount converters)
- Carry/storage bag
- GS 8 B technical data & operating instructions
- GS 8 B calibration certificate
- CD w/ electronic copy of manual & computational software

Note:

- Extra/replacement M, Z, Z3 cables and parts as needed may ordered separately.

Technical Data

Ambient Temperature	-4°F to +140°F
Protection Category	IP 40, per IEC/EN 60529
Field Current	±60 to ±125 mA pulsed DC 120 to 250 mA Peak to Peak
Error (% of measured value)	±0.4% SC 80 A: ±0.6%
Recommended Calibration Interval	Annual