

**AXF
PROFIBUS PA Communication Type
Magnetic Flowmeter**

Manual Change No. 09-020-5E

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Please use the attached sheets for the pages listed below in IM 01E20F12-01E (1st).

Page and Item	Contents of Correction
Page 8-1 Accuracy	Changed the definition of accuracy.

8. GENERAL SPECIFICATIONS

8.1 STANDARD SPECIFICATIONS

For items other than those described below, refer to IM 01E20D01-01E, IM 01E20C02-01E.

Applicable Models:

Integral Flowmeter AXF
Remote Converter AXFA14

Output Signal:

Digital communication signal based on PROFIBUS PA protocol.

Output data

Volumetric flow, Totalized value, Status output (Adhesion alarm, HH/H/L/LL alarm)

Input data

Totalized value reset

Function Blocks:

One AI Function block, Three Totalizer function blocks and Two DI function blocks are available (Profibus Profile 3.01 Compliant)

Conditions of Communication Line:

Supply voltage from the Bus: 9 to 32 V DC
Current Draw: 15mA (maximum)

Bus Address Switch:

via Hardware Address Switch or via Software

FDE (Fault Disconnection Electronic):

0 mA

Alarm Selection Function:

These informations are indicated in DIAGNOSTICS parameter, which can be handled during normal operation.

(Note 1) The following functions are not supported in the Profibus model.

- Pulse Output
- Multi-range Function
- Totalization Switch
- Alarm Output

Power Supply Voltage:

Power supply code 1:

- AC specifications
Rated power supply: 100 to 240 V AC, 50/60 Hz
- DC specifications
Rated power supply: 100 to 120 V DC

Power supply code 2:

- AC specifications
Rated power supply: 24 V AC, 50/60 Hz
- DC specifications
Rated power supply: 24 V DC

Displayed Language:

In the case of PROFIBUS PA communication type, only English is provided.

STANDARD PERFORMANCE

Accuracy:

Note: The accuracy of a product before shipment is defined as totalized value at the result of calibration test in our water actual flow test facility.

Calibrated conditions in our water actual test facility are as follows:

Fluid temperature; 20 ± 10°C
Ambient temperature; 20 ± 5°C
Length of straight runs; 10 D or more on the upstream side; 5 D or more on the downstream side
Reference conditions; Similar to BS EN29104 (1993); ISO 9104 (1991)

PFA/Ceramics Lining;

Size mm (in.)	Flow Velocity V m/s (ft/s)	Standard Accuracy (Calibration code B)	Flow Velocity V m/s (ft/s)	High Grade Accuracy (Calibration code C)
2.5 (0.1) to 15 (0.5)	V < 0.3 (1)	±1.0 mm/s	—	—
	0.3 ≤ V ≤ 10 (1) (33)	±0.35% of Rate		
25 (1.0) to 200 (8.0)	V < 0.15 (0.5)	±0.5 mm/s	V < 0.15 (0.5)	±0.5 mm/s
	0.15 ≤ V ≤ 10 (0.5) (33)	±0.35% of Rate	0.15 ≤ V < 1 (0.5) (3.3)	±0.18% of Rate ± 0.2mm/s
250 (10) to 400 (16)	V < 0.15 (0.5)	±0.5 mm/s	1 ≤ V ≤ 10 (3.3) (33)	±0.2% of Rate
	0.15 ≤ V ≤ 10 (0.5) (33)	±0.35% of Rate	—	—

T02.EPS

Polyurethane Rubber /Natural Soft Rubber / EPDM Rubber Lining;

Size mm (in.)	Flow Velocity V m/s (ft/s)	Standard Accuracy (Calibration code B)
25 (1.0) to 400 (16)	V < 0.3 (1.0)	±1.0 mm/s
	0.3 ≤ V ≤ 10 (1.0) (33)	±0.35% of Rate

T03.EPS