FAA-28 analogue amplifier

product description

High speed analog load cell transmitter FAA-28 has very high accuracy and long-term stability with its high-tech design. Its high performance electronic calibration via RS232C serial port without any test weight and fast calibration without measuring output signal reduces commissioning and service times.

This high-tech instrument gives the system designers a lot of advantages to increase the system reliability and to reduce the installation and service times. Besides the traditional analogue output adjustment with any test weight, the electronic calibration eCal and fast calibration with 20% max. test load reduces the calibration time.

All analogue outputs of the instruments are matched in the production to perform calibration at PLC and for changing the instrument without recalibration in service.

Analogue output 0...20 mA, 4...20 mA, 0...10VDC or 0...5VDC.

1 zeroing input and 2 free relay contact outputs for alarm or controlling valves, gate etc.

applications

Universal Process Weighing systems and process automation & control applications.

key features

- Load cell excitation5 VDC for up to 8 load cells á 350 Ω. or 18 load cells á 1100 Ω. (min.43 Ω)
- 6 and 4 wire load cell connection
- Analogue output 0...20mA, 4...20 mA, 0...10VDC or 0...5VDC
- 9 programmable digital filters
- Set up and calibration via rotary switches
- Preadjusted instrument for calibration with PLC
- Power supply12...28 V DC
- DIN-rail mounting, IP20
- Zeroing via digital input
- 2 Digital Outputs

CE RoHS compliant IP20

flintec

specifications

Type	-	FAA-28

A/D Convertor

Analogue input range	mV	-18 to 18
Linearity	%	<0.01
Digital Filter	-	9 step adjustable
Min. input interval	µV/d	0.4
A/D converter	-	24 bit Delta-Sigma ratiometric with integral analog and digital filters
Internal resolution	counts	16,000,000
External reolution	counts	Up to 60,000
External sampling rate	measurements /second	Up to 800
Temperature drift	% FSR /°C	< 0.005

Calibration & Analogue output

Calibration	-	With rotary switches in the front with any test load. with 20% Max. Electronic calibration via PC. Preadjusted instrument for calibration at PLC
Digital input	-	Zeroing via opto-isolated digital input
Analogue outputs	mA, V	Output 0-20 mA and 4-20mA or voltage output for 0-5 V und 0-10 V
Digital output	-	2 relay contacts for setpoints, 230 VAC or 30 VDC, 1 A

Load cells

Load cell excitation	VDC	5
Number of load cells	count	Up to 8 units á 350 Ω or 18 units of á 1100 Ω (min 43 Ω)
Load cell connection	-	6 or 4 wire technique.
Max. cable length load cell	m/mm^2	1,000
Max. cable length analogue output	m/mm^2	300

Setup & Communication

Front panel		Set up and calibration via 2 rotary switches
Software	-	eCal- electronic calibration without weights and digital filter adjustment via RS232C port and xFace PC software

Power Supply

DC Power supply	VDC	12 to 28, 0.2A

Environment & Enclosure

Operating temperature	°C	-10 to +45 at 85% RH max. non-condensing, legal for trade / -15 to +55 not legal for trade
Enclosure	-	Polyamide, for DIN-rail mount, IP20

product dimensions (mm)

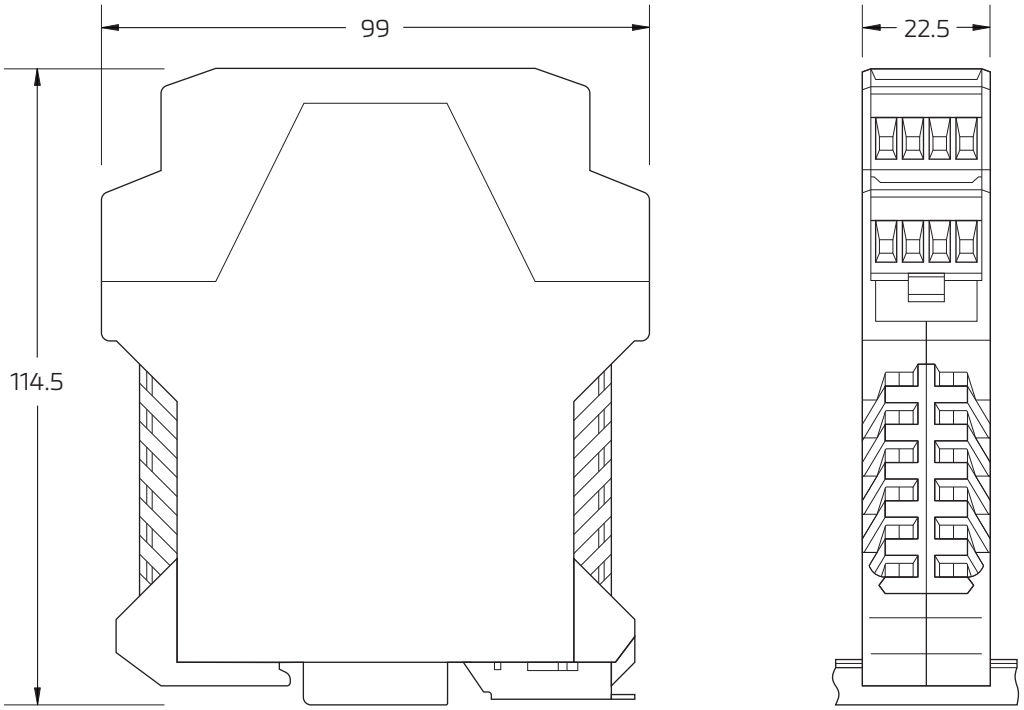

Diagram details are for illustrative purposes only.

Dimensions and specifications are subject to change without notice.