

Data Sheet | SG-Amplifier Series CFA225-P

Carrier Frequency 5V; 225 Hz



Applications | Key Facts

- Main applications: Single channel measurement, test and calibration tasks of strain gauge based transducers e.g. force sensors, or torque transducers
- Precision carrier frequency strain gauge measuring amplifier | CF 5V; 225 Hz | strain gauge full bridge 180 Ω 5 k Ω
- Highly precise and reliable measurement results | accuracy class: 25 ppm
- Handy & compact design
- Intuitive operation via keypad and illuminated display or USB-C interface
- Perfectly suited for mobile but also stationary use
- Portable use with external PowerBank via USB connection possible
- Excellent for reference measuring chains

Options | Accessories

- Wall mount included
- Table stand included
- Shock protection included
- Transport case included

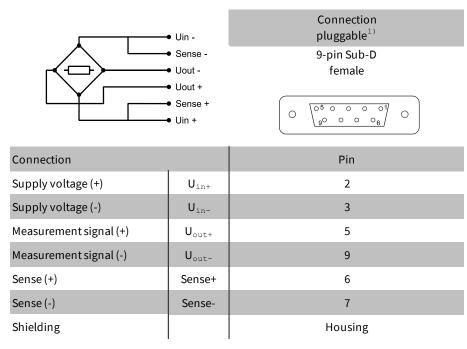
STM

Technische Daten

Metrological Data	Accuracy class	ppm	25
	Nonlinearity	ppm	±5
	Reproducibility	ppm	±5
	Temperature drift: Zero point sensitivity	ppm/K ppm/K	< ±5 < ±5
	Drift after 1 h when switched on Short time drift (10 min.) Long time drift (24 h)	ppm ppm	<±10 <±20
	Long term stability	ppm/a	<±25
Sensor connection	Connector		9-pin Sub-D female
	Connection technique		6-wire
	Max. recommended cable length to sensor standard measuring cable pairshielded cable	mm	5 (0,25 mm²) 50 (0,25 mm²)
	Sensortype		Strain gauge full-bridge
	Bridge resistance	Ω	180 5000
	Input signal Range	mV	±15
	Maximum input voltage	V	6
Sens	Excitation voltage		5 V / 225 Hz
Signal processing	Filtre characteristic	ms	Sinc ⁴ low-pass
	Maximum resolution		±300.000
	Noise (3σ-value)	ppm	±5
	Supply voltage 1. mains operation 2. USB operation 3. battery operation		1. 230 V / 50 Hz 2. 5V @ USB2.0 3. 4.5 V; 3 x AA
	Operating time in battery mode	h	ca. 5
	Connection to PC		USB-C
	Protection (DIN EN 60529)		IP50
ns	Rated temperature range	°C	1530
Miscellaneous	Operating temperature range	°C	040
scel	Dimensions (W*H*D)	mm	95 * 200 * 40
Mis	Weight	kg	appr. 0.3

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Transducer connection



1)View too weldingside

Series CFA225-P (eng.) 28/11/2023



Order Numbers | CFA225-P

Description	Order number
Precision strain gauge amplifier CFA225-P series CF 5 V; 225 Hz portable	S-CFA225_P-H2-F2

Note:

 ${\it Wall mount, table stand, shock protection, power supply and transport case are included}$

Order Numbers | CFA225-P | Accessories

Description	Order number				
Measuring cable					
Configurable double shield measuring cable yellow 5 m double shielded and twisted in pairs outer sheath Ø 6.5 mm 6-wire technology transducer connection: straight connector type LEMO 7-pin push-pull cable end measuring amplifier: D-Sub 9-pin	C-CAB-DMC-LE7S-05M-DS9				
Notes: Measuring cable may be included in the scope of delivery of the transducer. Other lengths e.g. 3 m, 10 m also available.					
Table Stand					
Table stand for measuring amplifier series CFA225-P	S-TS-CFA225_P				
Transport case					
Transport case with foam insert for a CFA 225-P and accessories	S-TC-CFA225_P				
Power supply as of Hardware Revison 2 (H2)					
Power supply Hardware Revison 2 only (S-CFA225_P-H2-F1) standard EU connector to USB-C 5 V; 1.5A (max.); 7.5W	S-PS-CFA225_P				



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