

# Data sheet

## Measurement Amplifier Series CFA225-T



### Benefits/Application

- Strain gauge precision measuring amplifier for static applications
- Accuracy class: 0.001 or 10 ppm
- Number of measuring channels: 2 x strain gauge full bridge 180  $\Omega$  – 2 k $\Omega$
- Interfaces: serial RS232, USB
- Bridge supply voltage: 5 V/225Hz CF
- Large display with intuitive on-site control via touch display

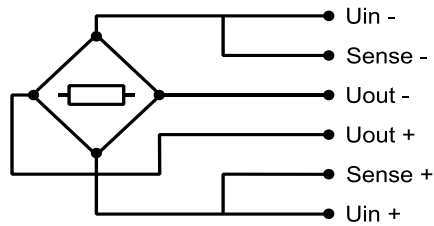
### Options/Accessories

- High-quality measuring cables available as accessories
- Factory calibration also available as measuring chain
- DAkkS certificate available on request

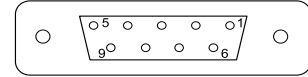
# Technical data

Metrological Data	Accuracy class	ppm	10
	Nonlinearity	ppm	±5
	Reproducibility	ppm	±5
	Temperature drift:		
	Zero point	ppm/K	< ±5
	sensitivity	ppm/K	< ±5
	Drift after 1 h when switched on		
	Short time drift (10 min.)	ppm	< ±10
Long time drift (24 h)	ppm	< ±20	
Long term stability	ppm/a	< ±10	
Sensor connection	Connector		9-pin Sub-D female
	Connection technique		6-wire
	Max. recommended cable length to sensor		
	standard measuring cable	m	5 (0,25 mm <sup>2</sup> )
	pairshielded cable	m	50 (0,25 mm <sup>2</sup> )
	Sensor type		DMS-full bridge
	Bridge resistance	Ω	180...2000
	Input signal Range	mV	±22
Maximum input voltage	V	6	
Excitation voltage		5 V / 225 Hz	
Signal processing	Filtre characteristic	ms	Dynamic moving average 100 ... 20000 (0,05 Hz ... 10 Hz)
	Maximum resolution		±2.000.000
	Noise (3σ-value)	ppm	±5
Miscellaneous	Supply voltage		
	mains operation		230 V / 50 Hz
	battery operation		
	Connection to PC		RS 232, USB
	Protection (DIN EN 60529)		IP50
	Rated temperature range	°C	15...30
	Operating temperature range	°C	0...40
	Dimensions (W*H*D)	mm	240 * 155 * 285
Weight	kg	ca. 4	

# Sensor connection



Connection  
pluggable<sup>1)</sup>  
9-pin Sub-D  
female

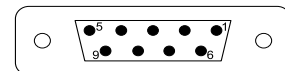


Connection		Pin
Supply voltage (+)	$U_{in+}$	2
Supply voltage (-)	$U_{in-}$	3
Measurement signal (+)	$U_{out+}$	5
Measurement signal (-)	$U_{out-}$	9
Sense (+)	Sense+	6
Sense (-)	Sense-	7
Shielding		Housing

1)View too weldingside

# RS232 Interface

Connection  
pluggable<sup>1)</sup>  
9-pin Sub-D  
male



Connection		Pin
Receive Data	RX	2
Transmit Data	TX	3
Ground	GND	5
Shielding		Housing

1)View too weldingside

Änderungen vorbehalten. Alle Angaben beschreiben unsere Produkte in allgemeiner Form. Sie stellen keine vereinbarte Beschaffenheit im Sinne des § 434 Abs. 1 BGB dar.

**GTM**  
DEFINING PRECISION

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