

Data sheet

Measurement Amplifier LT Digitizer



Benefits/Application

- Light measurement amplifier for flexible use
- Synchron signal processing
- Operation software configurable
- Accuracy class 0,0025
- USB 2.0 interface

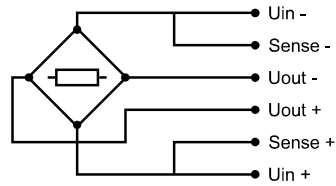
Options/Accessories

- 2 -, 4 - or 6-channel version
- Interface description for customer software
- Design an application-specific operating software
- Voltage ratio calibration according to DAkkS

Technical data

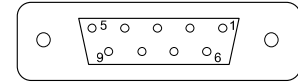
Metrological Data	Accuracy class	ppm	25
	Nonlinearity	ppm	±5
	Reproducibility	ppm	±5
	Temperature drift: Zero point sensitivity	ppm/K ppm/K	< ±1 < ±2,5
	Drift: without autocalibration	ppm	---
	with autocalibration	ppm	< ±20
	manual calibration	ppm	< ±5
Long term stability	ppm/a	< ±25	
Sensor connection	Connector		9-pin Sub-D female
	Connection technique		6-wire
	Max. cable length to sensor	m	100 (0,25 mm ²)
	Sensor type		DMS-full bridge
	Bridge resistance	Ω	150...5000 @ 5V 300...5000 @ 10V 1000...5000 @ 20V
	Input signal Range	mV	±40
	Maximum input voltage	V	10
	Excitation voltage	VDC	5; 10; 20
Signal processing	Integration time electronic	ms	0,1; 0,2; 0,3; 0,4; 0,5; 0,9; 1; 2; 5; 10; 20; 16,6; 20; 33,3; 40; 50; 60; 100; 120; 200; 300; 500; 1000; 2000; 5000
	Integration time software	ms	programmable moving average filter
	Maximum sampling rate	1/s	50
	Maximum resolution		±200000
	Noise (3σ-value)@ 500 ms	ppm	±10
Miscellaneous	Supply voltage		230 V / 50 Hz
	System software		MS Windows XP, MS Windows 7
	Protection (DIN EN 60529)		IP50
	Rated temperature range	°C	10...30
	Operating temperature range	°C	0...40
	Dimensions (W*H*D)	mm	170 * 55 * 220
	Weight	kg	ca. 1,2

Sensor connection



Connection
pluggable¹⁾

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

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



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