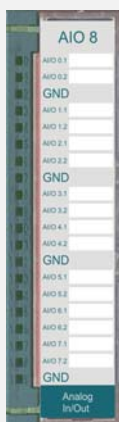


fred modulo AIO8



- **8 arbitrarily combined multi-functional channels**
- **characteristic line, linearisation and calibration**
- **software sided parametric sensor**
- **software sided parametric sensor scanning time and HW filter**
- **internal temperature compensation**
- **own processor modul**
- **status LED's**

Technical data

number digital I/O 8 (freely configurable as in- and output)

analog inputs

measuring ranges see the following table

A/D converter 12 Bit

measuring sizes current, voltage, resistance, RTC, thermocouples (TC), KTY

characteristic line arisation for thermocouples/-resistance

signal generator for current 2-wire
for resistance 2/3-wire

transformation time channel 120 ms

analog outputs

D/A-transformation 12 Bit

voltage scaling 0...10 V, 40 mV dissolution

current scaling 0/4-20 mA, 80 µA dissolution

current Tension 500 Ohm

transformation time channel 12,8ms

general

front panel IP20

EMI-test EN61000-6-2, EN61000-6-4

protection rating according to VDE 0411

safety class IP20 according to DIN40050

mounting fixing on top hat rail DIN50022

dimension in mm (W x H x D) 35 x 127 x 142,7

operating temperature 0° to 50°C

weight 260 g

order no:
fred-AIO8.11 **20.42.000.03**

measuring ranges			
	Typ	range	AIO8.1
thermocouples	B	250...1820°C	7,6
	E	-80...800°C	0,8
	J	-80...1200°C	1,2
	K	-80...1372°C	1,6
	L	-80...900°C	1,2
	N	-80...1300°C	2,0
	R	-45...1768°C	6,0
	S	-45...1768°C	6,4
	T	-100...400°C	1,6
thermo resistance	Pt100	-180...800°C	0,2
	Pt200	-200...230°C	0,2
	Pt500	-100...850°C	0,2
	Pt1000	-150...800°C	0,2
	Ni100	-150...250°C	0,2
	Ni120	-150...250°C	0,2
	Ni200	-150...250°C	0,2
	Ni500	-150...250°C	0,2
	Ni1000	-150...250°C	0,2
	CU10	-150...800°C	0,2
	KTY110/130	-100...100°C	0,2
	KTY11/13-5	-100...100°C	0,2
	KTY11/13-6	-100...100°C	0,2
	KTY11/13-7	-100...100°C	0,2
	KTY210/230	-70...200°C	0,2
	KTY21/23-5	-70...200°C	0,2
	KTY21/23-6	-70...200°C	0,2
	KTY21/23-7	-70...200°C	0,2

electric sizes	volt	0...10V	600 μ V
	volt	0...1V	120 μ V
	volt	0...100mV	40 μ V
	volt standardised	0...10V	600 μ V
	ampere	0...20mA	1,2 μ A
	ampere	4...20mA	1,2 μ A
	amp. standardised	0...20mA	1,2 μ A
	amp. standardised	4...20mA	1,2 μ A
	resistance	0...3790 Ohm	0,4 Ohm
	resistance	0...3790 Ohm	0,4 Ohm

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