



Trip amplifier

2231

- AC/DC trip amplifier
- 2 adjustable alarm limits
- Galvanically isolated 3.75 kVAC
- Front-programmable
- 3-digit LED display
- 24 VDC or universal supply







Advanced features

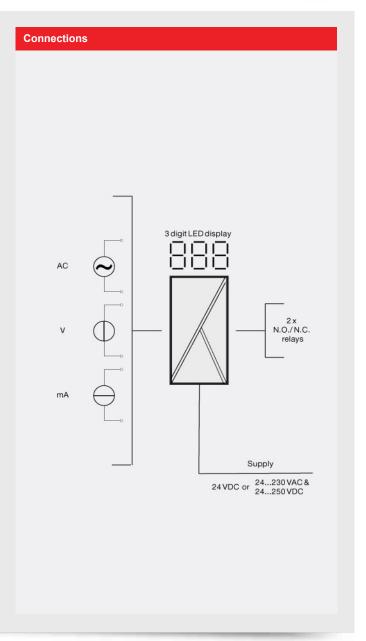
- · The front-operated push buttons are used for programming the different standard functions.
- · A password can prevent access for changing parameters.

Application

- · Alarm detector in connection with measurement of AC/DC current or voltage signals.
- The unit is used where accurate setpoint setting and different alarm functions are required.
- The unit can be used as a single or dual trip amplifier.
- · Used in applications where programmable parameters such as hysteresis, setpoint, reset, active relay for increasing or decreasing signal, delay and input signal need to be set.

Technical characteristics

- 3-digit display showing the input signal in %.
- · Two LED indicating relay status.
- · 3 pushbuttons for programming.
- · Standard DC current input signals in the range 0...20 mA.
- DC voltage signals in the range 0...250 VDC.
- · AC current signals up to 1 A.
- · True RMS measurement of AC voltage signals in the range
- · Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.



Order:

Туре	Supply	
2231	24 VDC : D 24230 VAC / : P 24250 VDC	

Environmental Conditions

Specifications range	-20°C to +60°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP50

Mechanical specifications

Dimensions (HxWxD)	80.5 x 35.5 x 84.5 mm (D is
,	without pins)
Weight DC / universally supplied	125 a / 175 a

Common specifications

Supply

Supply voltage	19.228.8 VDC
Supply voltage, universal	
· · · · · · · · · · · · · · · · · · ·	19.2 300 VDC

Isolation voltage

isolation voitage, test /	
working	3.75 kVAC / 250 VAC
PELV/SELV	IEC 61140

Response time

Response time			
Response time (programmable)	0.25	.60 s	(DC)
Response time (programmable)	0.75	60 s	(AC)

(F 3)	
Internal consumption	1.5 W (2231D)
Internal consumption	

EMC immunity influence.....< ±0.5%

Input specifications

Common input specifications

Max. offset	50% o	f selected max. value

Current input

Measurement range	020 mA
Min. measurement range (span)	10 mA
Input resistance	50 Ω

AC current input

Measurement range	01 ARMS
Min. measurement range (span)	0.5 ARMS
Innut recistance	10/2W

Voltage input

Measurement range	0250 VDC
Min. measurement range (span)	0.5 VDC
Input resistance	Nom. 5 MΩ

AC voltage input

AC voltage input	0250 VRMS
Min. measurement range (span)	0.5 VRMS
Innut resistance	Nom 5 MO

Output specifications

Relay output

Hysteresis	099.9% of span
ON and OFF delay	0.099.9 s
Max. voltage	250 VRMS
Max. current	2 AAC
Max. AC power	500 VA
Max load at 24 VDC	1 Δ

Common output specifications

Updating	time	100 ms

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/FU

Approvals

EAC	TR-CU 020/2011
LAU	111-00 020/2011