

Digital indicator for bonded strain gauges AN43

The **AN43** digital indicator provides the necessary low-voltage excitation required for bonded metal strain gauges, thus making these indicators easy to use with most pressure and force transducers. Independent zero and span adjustment is available from the front panel.

- **Transducers excitation**
- **10 000 counts LED display**
- **Zero and span adjustment on front panel**
- **Analog output 4-20 mA or 0-10 V**
- **Two alarm thresholds (option)**
- **Average, minimum, maximum value**
- **Digital tare (re-zero)**
- **Conforms to CE (European directive 89/336/CEE).**



Specifications (20°C), options

Display :

-1 999 to + 9999 counts, red LED.
Overrange: display dEP.
Decimal point programmed on front panel.

Power supply :

220 VDC / 50 Hz.
Consumption: 6 W.

Excitation voltage output :

5 V, 10 V, by jumper.

Compleat bridge : 100 to 5000 Ω.

Input : 0-30 mV.

Accuracy :

± 0,1% F.S. ± 1 digit.

Operating temperature :

0 + 60°C

Storage temperature :

-40 + 85°C

Tightness :

IP 20 according to NF EN 60529

Reading rate :

7 reading/second.

Alarms :

2 independent thresholds programmable in hysteresis
Resolution ± 3 counts
Fully adjustable switches on the display range
Relays on when signal above set point (can be reversed).
Load rating : 3A-24 Vdc ; 0,5 A-220 Vac
Direct current : 150 W to 24 Vdc, 50 W to 220 Vdc
Alternating current : 250 Vac.

Analog output (non isolated) :

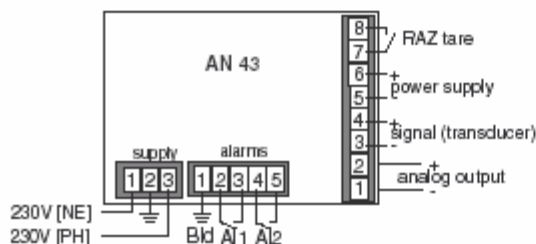
0-10 V (standard) or 4-20 mA (option), low-scale and high-scale values are adjustable on the full range.
Max current output limited to 50 mA/750 Ω
Max current (voltage output) limited to 10 mA/75 Ω.

Options :

- 110 V/50 Hz, 48 V/50 Hz, 24 V/50 Hz, 24 Vdc power supply
- Front panel IP 55
- Front Keypads
- Analog output 4-20 mA
- Calibration with certificate Q1060

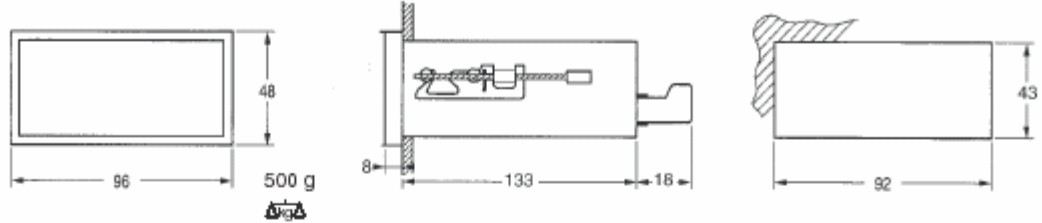
Wiring

Back panel :



T R A N S D U C E R	PRESSURE	leaflet n°
	E101-E111	
E801-EY81		304036
EMD1-EG51		
EFO		304042
	FORCE	leaflet n°
FXF1-FXC1		304051
FXD1		304053
FXG1-FXK1		304010

Dimensions (mm)



Codification

	A	N	4	3		0	2		*
Family :									
Accessories									
Electronic	A								
Type				N43					
Power supply :									
220 Vac (standard)					A				
110 Vac					D				
24 Vac					E				
24 Vdc					F				
48 Vac					J				
Output signal :									
(copy)									
0-10 V								02	
4-20 mA								03	
Treshholds :									
2 tresholds								2	

Transmitter with indicator calibrated together :

- 0** without
- 1** physical unit display (to specify bar, psi, daN)
- 2** end points calibration (zero and span)
- 3** Q1060 calibration certificate 21 points
- 5** Q1060 calibration certificate 11 points

*** Uncoded options have to be listed after the code number**