

This measuring device is used in applications requiring both local (and visual) and remote controls. With its various options of pressure ports, the E 813 and E833 can be used in a large number of industrial environments.

The E813/E833 series, based upon the TRANSBAR® technology with associated electronics, feature both a 4-20 mA pressure transmitter and a pressure gauge fitted with LCD display. The devices are protected against polarity reversal.

- Industrial applications (E813/Y813)
- Process, Food processing and pharmaceutical applications (E833/Y833)
- High accuracy
- Local measurement and remote transmission.
- Intrinsically safe version :
LCIE certificate EEx ia IIC T5
- Conforms to **CE** (European directive 89/336/CEE).



Specifications (20°C)

Range :

	E813/Y813	E833/Y833
• compound :	-1 + 1.5 to -1 + 39 bar	-1 + 1.5 to -1 + 39 bar
• pressure :	0+ 1 to 0 + 600 bar	0 + 1 to 0 + 40 bar

Supply voltage :

E813/E833 : 15 - 40 Vdc, option up to 48 Vdc
Y813/Y833 : 15 - 28 Vdc

Electromagnetic compatibility :

Meet the toughest requirements of electromagnetic compatibility standards (European directive 89/336/CEE)

- EN50082-1 and 2 (immunity)
- EN 50081-1 and 2 (emissions are 100 times lower than the max. permissible levels)
- Wiring : shielded cable, screen connected

Output signal :

4-20 mA (2 wires)

Global error (including non linearity, hysteresis, non repeatability):

≤ 0.3 % F.S. (from 0 + 4 to 0 + 400 bar)
≤ 0.4 % F.S. (0 + 1 bar to 0 + 2.5 bar)

Thermal zero drift :

≤ 0.025 % F.S./°C, except P = 1 bar : 0.04 % F.S./°C

Thermal sensitivity drift :

≤ 0.015 % /°C

Operating temperature ranges :

- Ambient (Ta) : -10 + 60°C (standard)
-25 + 40°C (T5)
-25 + 70°C (T4) } Y813/Y833
- Fluid : -25 + 100°C (Ta ≤ 50°C)

Compensated temperature range : -10 + 60°C.

Storage temperature : -40 + 85°C

Display :

- 3 ½ digits LCD - Height of figures : 12.7 mm
- Display : ± 1999
- Overpressure warning with 1. for 2000 points ranges

Casing and bezelring :

Stainless steel 1.4307 (304)

Connections :

- Electrical : DIN 43 650
- Hydraulic:
Standard (E813/Y813) : G 1/2, 1/2 NPT
Chemical seals (E833/Y833) :
- Tri-clover : DN 38-51 (Clamp)
- DIN : DN 32-40-50
- SMS : DN 38-51
- Screwed or flange process connection : D100 - D200
- Other versions: consult us

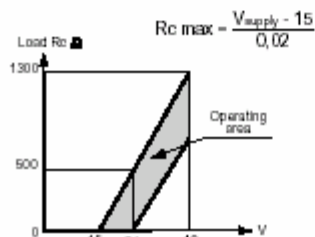
Degree of protection :

IP 65, according to EN 60 259

Wetted parts :

E813/Y813 : ceramic, stainless steel 1.4404 (316 L) NBR o'ring
E833/Y833 : stainless steel 1.4404 (316L)

Load diagram



Electrical connections

1	+ supply
2	- supply
3	unconnected
⊥	Ground

