

# MB330 Explosion-proof Pressure Transmitter

## Features

- Explosion-proof, mildewproof, moistureproof;
- High precision, anti-vibration, anti-jamming;
- Perfect long-term stability;
- Various output signal, accepting custom design.

## Application

- Engineering machinery、 Car
- Oil and Chemical industry
- Automatic checkout system
- Shipping、 Railway transportation
- Wind power generation
- Supply heating、 Medicine
- Hydraulic pressure、 Air compressor and Pump



## Introduction

MB330 Explosion-proof Pressure Transmitter is designed for explosion occasions pressure measurement. Exia II CT6, Exd II BT4 authorized. All-welded stainless steel construction. High strength and small volume, perfect anti-vibration, mildewproof & moistureproof designing.

## Specification

Pressure Type	Gauge pressure, Absolute pressure, Sealed gauge pressure							
Measuring Medium	Liquid ,gas, vapor ,which are compatible with SUS304							
Pressure range(MPa)	-0.1	1	1.6	6	10	20	40	60 or customized
Pressure range (bar)	-1	10	16	60	100	200	400	600 or customized
Pressure range (psi)	-14.5	300	700	900	2k	4k	8k	or customized
Overload range	200%FS							
Bursting pressure	300%FS							
Power Supply	(9~36) VDC,		(9~36) VDC,		(9~36) VDC			
Output signal	(0~5)V,		(1~5)V,		(4~20)mA			
Transmitting	2-wires,		3-wires,		3-wires,			
Load	$\leq(U-15)/0.02\Omega$ ,		> 100k,		> 100k			
Vibration	10~500Hz 25g							
Shock resistance	50g 11ms							

ADD: NO.2 Shenma Road, Maqun Science Park, Nanjing, Jiangsu Province, China.

TEL: (0086) 025-85300032, FAX: (0086) 025-85329493

E-mail: angela.zou@govagroup.com( M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)

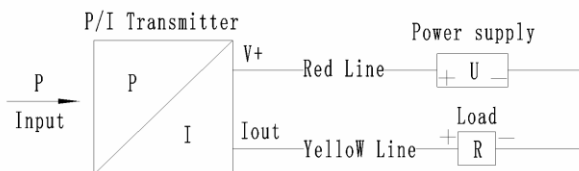
Accuracy	$\pm 0.5\%FS(\text{typ.}) @25^{\circ}C$
Zero temp.drift	$\pm 0.03\%FS/^{\circ}C$
FS temp.drift	$\pm 0.03\%FS/^{\circ}C$
Long-term stability	$\pm 0.2\%FS/Y$
Insulation resistance	250 M $\Omega$ /250V, 100M $\Omega$ /250V
Medium temp.	$(-40\sim 125)^{\circ}C$
Ambient temp.	$(-40\sim 85)^{\circ}C$
Storage temp.	$(-40\sim 125)^{\circ}C$
Compensated temp.	$(-10\sim 80)^{\circ}C$
Housing	SUS304
Diaphragm	SS316L
O-ring	Viton
Protection	IP67

## Electrical Connection

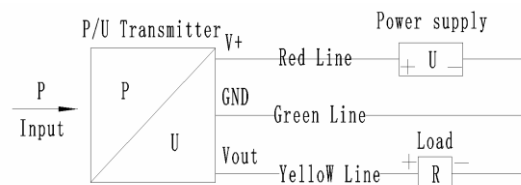
- Cable connection wiring

Color	2-wires	3-wires
Red	+V	+V
Yellow	0V/+OUT	GND
Green	Null	+OUT

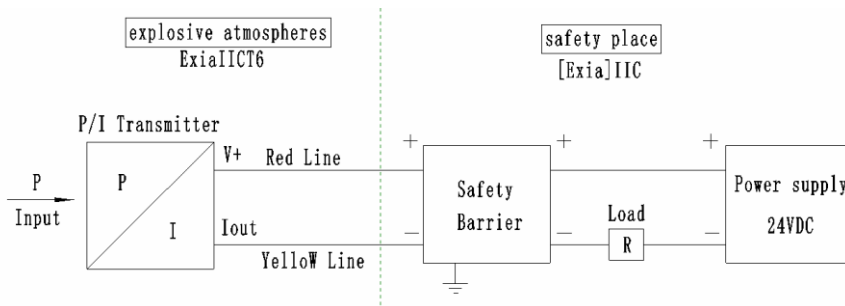
2-wires, 4~20mA output



3-wires, 0~5V, 1~5V output



Intrinsic safe system:



Parameters:

$$U_i \leq 28VDC \quad I_i \leq mA$$

$$L_i = 0mH \quad C_i = 22nF \quad P_i \leq 0.65W$$

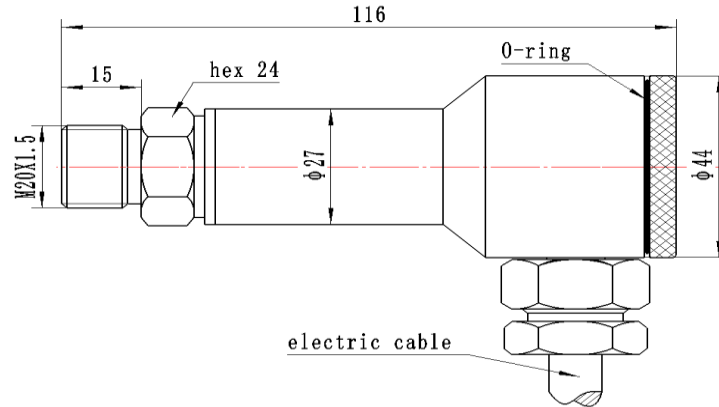
Safety Barrier Parameters:

$$U_o \leq 28VDC \quad I_o \leq mA$$

ADD: NO.2 Shenma Road, Maqun Science Park, Nanjing, Jiangsu Province, China.

TEL: (0086) 025-85300032, FAX: (0086) 025-85329493

E-mail: angela.zou@govagroup.com (M.T. 18951021368); senniehs@govagroup.com (M.T. 18752007602)

**Outline Construction:** (Unit:mm)

**Order Guide**

MB330	Explosion-proof Pressure Transmitter	
0~30MPa	Pressure range (Unit:Psi,Bar,Kpa,Mpa...)	
	Code	Pressure reference
	A	Absolute pressure
	G	Gauge pressure
	S	Sealed gauge pressure
	Code	Excitation
	V1	24V
	V2	12V
	V3	others (please specify)
	Code	Output signal
	S1	4 ~ 20mA
	S2	1 ~ 5V
	S3	0 ~ 5V
	S4	others (please specify)
	Code	Pressure connection
	C1	M20×1.5 or G1/2
	C2	G1/2
	C3	others (please specify)
	Code	Accuracy
	A1	0.1%FS
	A2	0.25%FS
	A3	0.5%FS
	Code	Specific need
	I	Intrinsically safe Exia II CT6

ADD: NO.2 Shenma Road, Maqun Science Park, Nanjing, Jiangsu Province, China.

TEL: (0086) 025-85300032, FAX: (0086) 025-85329493

E-mail: angela.zou@govagroup.com( M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)



## Explosion-proof Pressure Transmitter

							E	Anti-vibration
							K	Anti-impact
							L	Cable length 2m
							Y	Other requirements
MB330	0~30MPa	G	V1	S1	C1	A1	E	

### Order Note

1. The material of measuring medium should be compatible with the stainless steel.If it is corrosive,pls specify its material in detail.
2. Please note in the order if you need zero pressure as negative pressure.
3. Please note it in detail if your application environment is critical or the elements which may influence the pressure transmitter normal operation existed.
4. The structure and demension of the pressure transmitter can be used for most of the application occasions,if your application space is too small or having other requirements to the transmitters,please specify it in detail.
5. All specifications are subject to change.Contact Gaohua for specifications and engineering drawings that are critical to your application.Drawings contained in this document are for reference only.

ADD: NO.2 Shenma Road, Maqun Science Park, Nanjing, Jiangsu Province, China.

TEL: (0086) 025-85300032, FAX: (0086) 025-85329493

E-mail: angela.zou@govagroup.com( M.T. 18951021368); senniehs@govagroup.com(M.T.18752007602)