



**PRESSURE TRANSMITTER**

**CONVALVE**  
PRESSURE TRANSMITTER  
Input : 0...60 bar  
Output : 4-20mA  
Connection : 1(+) / 2(-)  
Supply : 10...36 VDC  
Serial N. : 250521-38  
Protection : IP65  
Accuracy : % 0,5  
Max. pressure : 100 bar



- ISO 9001  
Quality
- ISO 14001  
Environment
- OHSAS 18001  
Health & Safety

## PRESSURE TRANSMITTER

### DESCRIPTION

Pressure transmitters are devices that measure the relative and absolute pressure of liquids, gases and steam in many industries such as chemical, pharmaceutical, food industries and water distribution networks.

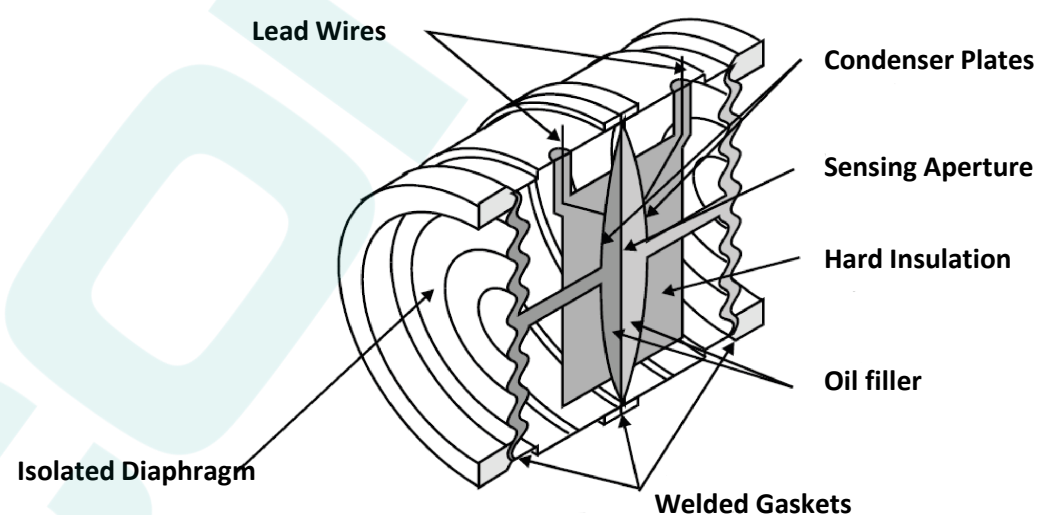
### FEATURES

The transmitter is composed of a ceramic sensor placed in a stainless steel body or a piezoresistive measurement cell and an electronic card on a stainless steel 316L body. The sensor design ensures reliability during temperature changes and overload. The use of a stainless steel 316L diaphragm or ceramic sensor ensures high linearity over the entire measuring range while minimizing the hysteresis effect.

The process connection is an easy-to-install pressure transmitter available as a stainless steel 1/2-inch thread and flange connection.

### WORKING PRINCIPLE

Stainless steel 316L diaphragm and ceramic sensor sense the physical deviations of the elements under pressure. Mechanical deformation is transmitted by transforming an electrical signal through the diaphragm and the ceramic sensor with a resistance bridge. An amplifier converts the cell's output voltage into 4-20mA, which is the transmitter's output current signal. The Pressure Transmitter is powered by an external stable power supply. Reverse polarity and high supply voltage are avoided by protection diodes at the input. The device is also not affected by electromagnetic noise thanks to the EMC protective components inside.



## PRESURE TRANSMITTER

CVPT-PO1

TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Max. 2000
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 2000 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40°~ 135°C
AMBIENT TEMPERATURE	-25°~ 85°C
PROTECTION CLASS	IP65
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Stainless Steel 316L
TERMINAL	Plastic
PROCESS CONNECTIONS	G 1/4" , G1/2" , G1/2" flush, clamp, flange and etc.
SIZE AND WEIGHT	
WEIGHT	Approximately 0,25 kg
SIZE	Ø 27x112 mm



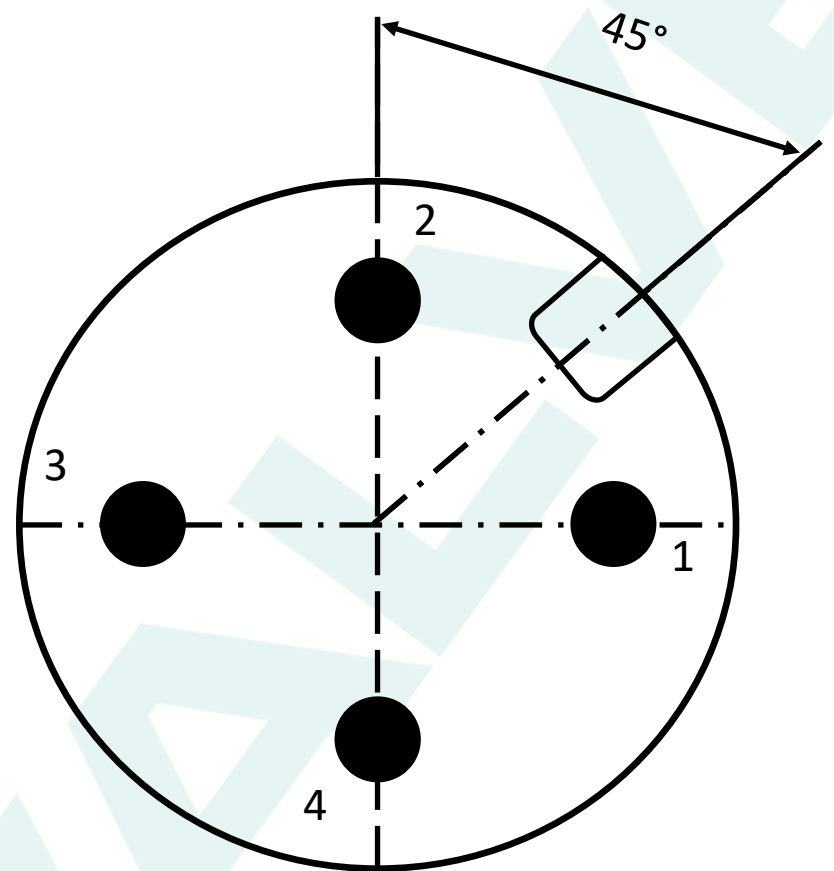
## PRESSURE TRANSMITTER

CVPT-DP01

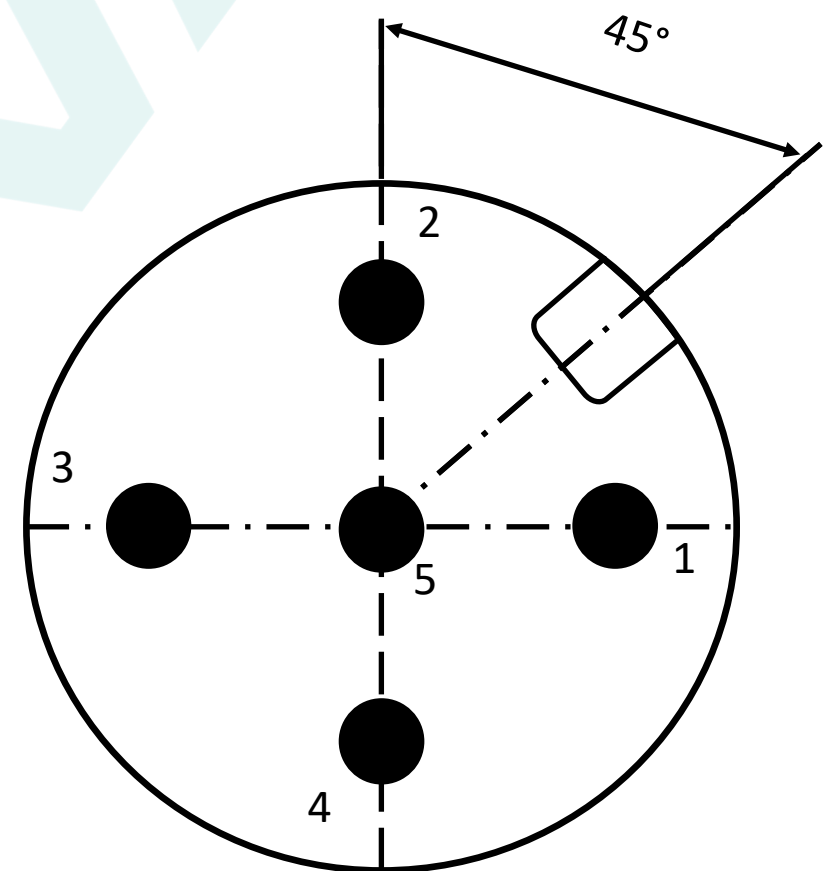
TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Max. 2000
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 40 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40°~ 135°C
AMBIENT TEMPERATURE	-25°~ 85°C
PROTECTION CLASS	IP65
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Stainless Steel 316L
TERMINAL	Plastic
PROCESS CONNECTIONS	G 1/4" , G1/2"
SIZE AND WEIGHT	
WEIGHT	Approximately 0,35 kg
SIZE	Ø 27x112 mm



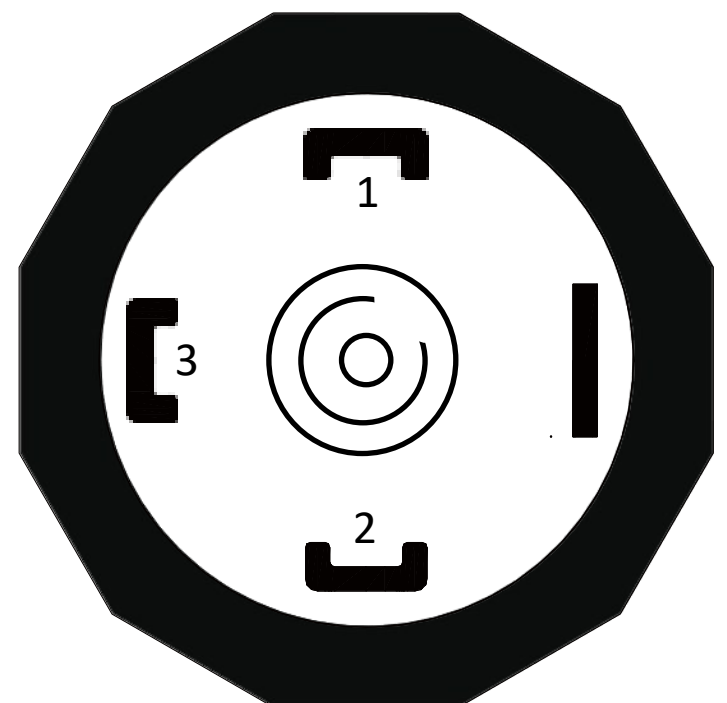
Circular Connector M12 4 Pin			
	2 Wire Output	3 Wire Output	0-10V
V+	1	1	1
V-	2	2	2
Signal Output	-	3	3



Circular Connector M12 5 Pin			
	2 Wire Output	3 Wire Output	0-10V
V+	1	1	1
V-	2	2	2
Signal Output	-	3	3



DIN43650 Connector			
	2 Wire Output	3 Wire Output	0-10V
V+	1	1	1
V-	2	2	2
Signal Output	-	3	3



## PRESSURE TRANSMITTER

### CVPT-P02 / P03

TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Max. 2000
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 2000 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40°~ 135°C
AMBIENT TEMPERATURE	-25°~ 85°C
PROTECTION CLASS	IP65
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Stainless Steel 316L
TERMINAL	Plastic
PROCESS CONNECTIONS	G 1/4", G1/2", G1/2" flush, clamp, flange and etc.
SIZE AND WEIGHT	
WEIGHT	Approximately 0,35 kg
SIZE	Ø 27x112 mm
NOTE	
P03	Alarm Output

### CVPT-P02



### CVPT-P03



# PRESSURE TRANSMITTER

## CVPT-P04 / P05

TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Maks. 2000
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 2000 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40~ 135°C
AMBIENT TEMPERATURE	-25°~ 85°C
P04 PROTECTION CLASS	IP67
P05 PROTECTION CLASS	IP67
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Aluminum
TERMINAL	Electrical Connection m 20x15
PROCESS CONNECTIONS	G 1/4" , G1/2" , G1/2" flush, clamp, flange and etc.
SIZE AND WEIGHT	
WEIGHT	Approximately 0,6 kg
SIZE	Ø 27x112 mm

CVPT-P04



CVPT-P05



## PRESSURE TRANSMITTER

### CVPT-P06 / P07

TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Maks. 2000
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 2000 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40~ 135°C
AMBIENT TEMPERATURE	-25~ 85°C
PROTECTION CLASS	IP68
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Stainless Steel 316L
TERMINAL	Electrical Connection m 20x15
PROCESS CONNECTIONS	G 1/4" , G1/2" , G1/2" flush, clamp, flange and etc.
SIZE AND WEIGHT	
WEIGHT	Approximately 0,6 kg
SIZE	Ø 27x112 mm

CVPT-P06



CVPT-P07





## PRESSURE TRANSMITTER

CVPT-DP02

TECHNICAL FEATURES	
PRESSURE RANGE (BAR)	Min. -1 /Maks. 160
OVERLOAD (BAR)	FSx2
WORKING PRINCIPLE	
MEASURING PRINCIPLE	Piezoresistive Measuring Cell
INPUTS	
MEASUREMENT VARIABLES	Relative and Absolute Pressure
MEASURING RANGE	Max. 160 BAR
OUTPUTS	
CURRENT OUTPUT	4~20 mA/4~20 mA+Hart/ Optional 0-10V
LOAD	(U~10 V)/0,02 A
PRECISION	
ACCURACY	Full Scale < %0,2
ZERO POINT	±0,2 mV/V
TEMPERATURE EFFECT	
ZERO	± 0,02 % TS/K
OPERATING CONDITIONS	
OPERATING TEMPERATURE	-40°~ 135°C
AMBIENT TEMPERATURE	-25°~ 85°C
PROTECTION CLASS	IP68
POWER SUPPLY	
POWER SUPPLY VOLTAGE	10...36 VDC
MATERIALS	
SENSOR	Stainless Steel 316L, Ceramic
PROCESS CONNECTION	Stainless Steel 316L, Hastelloy C, other materials
O-RING	Viton
OUTER BOX	Stainless Steel 316L
TERMINAL	Stainless Steel 316L, Aluminum
PROCESS CONNECTIONS	G1/4 ", optional and others
SIZE AND WEIGHT	
WEIGHT	Approximately 0,6 kg
SIZE	Ø 27x112 mm

