# CDP-100S Pressure Type Level Transmitter





**VARIOUS LEVEL SENSORS & CONTROLLERS FOR YOUR APPLICATIONS** 





CDI TECHCO.,LTD.

Suite 706 World Merdian Venture Center II, 426-5, Kasan-Dong, Kumchun-Gu, Seoul, Korea Phone : 82-2-2025-8188 FAX : 82-2-2025-8187 e-mail : cdi@cdinstech.com Web : www.cdikorea.com We provide your solutions

# CDP-100S Pressure Type Level Transmitter





CDP-100 series submersible or tank level pressure transmitter has been developed for measuring and monitoring water or liquid level in industrial and communal hydrostatic applications. The bluilt-in piezoresistive silicon measuring element designed offers great accuracy, excellent long term stability and very low temperature drift.

The compact transmitter design allows versatile applications and are suitable for measuring dynamic and static pressure. The level pressure transmitters are available for absolute or relative pressure with 2 wire current output and can be used for wide ranges of application in process control, level measurement of open weirs or stilling wells, tanks farms and paper liquors.

It is designed as a general industrial level pressure transmitter with wide variety of available options to meet specific application requirements and constructed of water proofed.

### **FEATURE & APPLICATIONS**

#### FEATURE

Rugged Construction and Excellent Cable High Accuracy Low Temperature Drift Excellent Long Term Drift Measuring Range from 0-0.05 to 10 kg.f/cm<sup>2</sup> Gauge Pressure Measuring Range from 0-1 to 10kg.f/cm<sup>2</sup> Gauge or Absolute Pressure Shock and Vibration Resistants Water Proofed Construction

#### **APPLICATIONS**

Geophyusical Applications Level Measurement in Storage Tank Underground Water Monitoring in Both Communal and Industrial Areas Water and Waste Water Treatment Water Supplies and Reservoirs Well and Borehole Probe Marine Research

## CDP-100S Pressure Type Level Transmitter TECHNICAL SPECIFICATIONS



Model	CDP-100S					
Pressure range	0-0.0610kgf/cm <sup>2</sup> gauge					
r roodaro rango	0-110kgf/cm <sup>2</sup> absolute					
Overload	3 x FS without damage					
Output signal	4-20mA DC Current output					
Output signal	1-5V DC Voltage output available					
Excitation voltage	18-36V DC					
Influence of excitation voltage	less than 0.01% FSO/V					
Media	Water, oil and other liquids					
Power ripplel	less than 500mV P-P					
Load resistance	500Ω at 24V DC					
Reverse polarity protection	Yes					
Shock resistance	less than 20G					
Accuracy	±0.2% FSO					
Linearity	0.100% of span, BFSL					
Repeatability	0.015% of span, BFSL					
Hysteresis	0.010% of span, BFSL					
Stability of sensitivity	0.200% of span, BFSL					
Stability of zero	0.300% of span, BFSL					
Cutoff frequency (-3dB)	0> 5kHz					
Reference temperature	35°C					
Thermal sensitivity shift	0.500% of span, BFSL					
Thermal zero shift	0.500% of span, BFSL					
Long-term stability	0.300% of span over 6 months					
Temperature compensated	0-82°C					
Operating temperature range	-40°C to 125°C					
Pressure nose cap	Com (standard)					
	Filter					
Material of wetted plug	Stainless steel 316					
diaphragm	Stainless steel 316L SS					
housing	Stainless steel 316					
gasket O-ring	Viton					
external cable cover	Poly Urethan					
venting tube	Teflon					
Wire construction	6 wires, venting tube, sheilded					
Cable dia-meter	Approx. Φ7.5mm					
	Terminal head with flangel					
Optionsl	Local indicator					
	Explosion proofed terminal box					

#### We provide your solutions

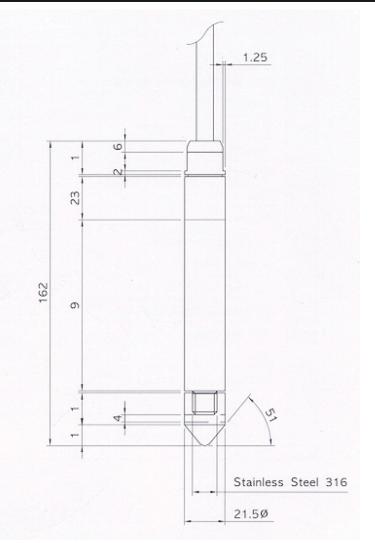
# CDP-100S Pressure Type Level Transmitter



#### INSTALLATION

Each transmitter is subjected to an extended test program where zero and full scale output are individually adjusted as to guarantee the interchange ability of the transmitters. Additional calibration will not be necessary due to the excellent sensor characteristics. Whenever installing submersible level pressure transmitter, the following conditions should be considered;

- Select a proper nose cap according to the application.
- Support cable should be installed when the cable length over 50m.
- The venting hole should be opened to the atmosphere when applying gauge pressure sensor.

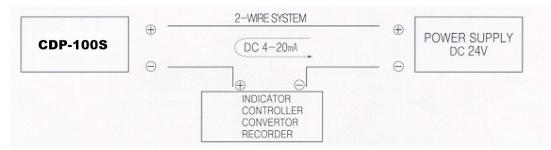


#### DIMENSION

# CDP-100S Pressure Type Level Transmitter



## SYSTEM CONNECTION FOR 2-WIRE TRANSMITTER



### ORDERING CODE

MODEL	CDP-100S	Х	XX	Х	X	X	Х	X	
Pressure reference	Gauge pressure	1							
	Absolute pressure	2							
Measuring range	0-600mmH₂O		00						
	0-1000mmH2O		01						
	0-2000mmH2O		02						
	0-1 kgf/cm <sup>2</sup>		03						
	0-2 kgf/cm <sup>2</sup>		04						
	0-3 kgf/cm <sup>2</sup>		05						
	0-5 kgf/cm <sup>2</sup>		06						
	0-10 kgf/cm <sup>2</sup>		07						
	Special calibration on request		XX						
Output signal	4-20mA			А					
	Other signals on request			В					
Accuracy	±0.25% FSO			С					
Nose cap	Corn (Standard)			Х					
	Filter				1				
	Weight					Α			
	Other caps on request					X			
Materials of housing	Stainless steel 304 (standard)						1		
	Stainless steel 316						2		
	Other materials on request						3		
Cable length	10m (standard)							Α	
	20m							В	
	Extension cable on request							Х	
Options	Terminal head								
	Local indicator								
	Flange								