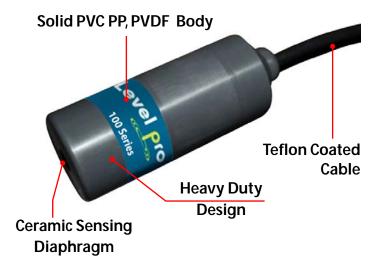


## The Solution to Tough Level Applications "Where Ultrasonics Sensors Simply DO NOT WORK!"

### **ALL PLASTIC DESIGN**



#### **Pressure Measurement**

▶ Tanks / Sumps 0-14ft / H<sub>2</sub>O up to 54ft / H<sub>2</sub>O

#### **Output Signal**

2 wire: 4-20 mA

#### **Features**

- Compact Design
- Low Cost
- Excellent Long Term Stability
- High Accuracy
- ► Flush Sensor Non Clogging Design
- ► Heavy Duty PTFE Cable (5m, 10m, 15m) Length - Other Lengths Available
- Excellent for Foam, Vapor or Condensate
- Ceramic Sensing Diaphragm
- Heavy Duty Rugged Design
- No Moving Parts
- Automatic Temperature Compensation

### **Commercial Series**

**Heavy Duty Industrial Level Transmitter** 

**PVC, PP, PVDF Plastic Transmitter** for Aggressive Fluids

> PVC, PP, PVDF Body (Corrosion Resistant)

The 100 Series Pressure Transmitter is designed for Continuous Level Measurement for Aggressive Liquid Media. - No Lost Signals

### **Applications**

#### Sewage

• Foam - Vapor-Turbulence-Condensate Waste Water Treatment



- Leachate Collection
- Waste Sumps or Pits
- Chemical Dosing
- Inventory Management

#### **Aggressive media**



- Pits
- Chemical Tanks
- Plating Tanks
- PH Control Tanks
- Storage Tank Monitoring
- ► Excellent for All Tanks/Sumps-Large (54') or Small (14")
- The Solution to Tough Applications where **Ultrasonics Sensors Simply DO NOT WORK!**
- ▶ No Lost Signals





### **Input Pressure Range**

Level ft/H <sub>2</sub> O		14.0	20.0	33.5	54
Overpressure	PSI	2.1	29	29	58
Burst Pressure >	PSI	29	58	58	72

### **Output Signal/Supply**

St	andard	2-wire: 4-20mA
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#### **Performance**

Accuracy	<± 0.5% Full Scale or Better						
Permissible load	$R_{\text{max}} = [(V_S - V_{Smin})/0.02 \text{ A}] \Omega$						
Influence effects	Supply : 0.05% Full Scale/10V Load : 0.05% Full Scale/K Ω						
Long term stability	<± 0.1% Full Scale over One Year						
Response time	<10 msec or better						
<sup>1</sup> accuracy according to IEC 607	770 - limit point adjustment (non-linearity, hysteresis, repeatability)						

### **Thermal Effects (Offset and Span)**

Thermal Error	<± 0.2% FSO/K in compensated range -25 - 70°C -13 - 158°F
	in compensated range 25 70 0 10 100 1

### **Permissible Temperatures**

Permissible Temperatures	Medium Storage	<b>PVC</b> 0°C -60°C 32°F -140°F -10°C -60°C	<b>PP</b> -20°C -195°F	<b>PVDF</b> -30-200 F
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#### **Electrical Protection**

Short-circuit Protection	Permanent
Reverse Polarity Protection	No Damage to Sensor
Electromagnetic Compatibility	Emission Immunity according to EN 61326
Short-circuit Protection	Permanent



#### **Electrical Connection**

Cable with sheath material	PTFE (Teflon®) (0 -200°F)
3 Wire Cable with integrated air to	ube for atmospheric pressure reference

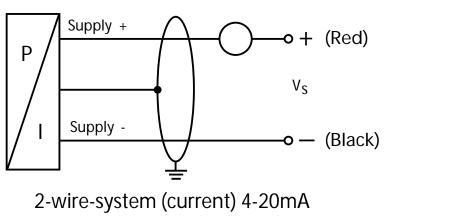
### **Materials (wetted)**

Housing	PVC, PP, PVDF
Seals	FKM
Diaphragm	Ceramic Al <sub>2</sub> 0 <sub>3</sub>

#### **Miscellaneous**

Current Consumption	Max. 25 mA
Weight	approx. 200g (without cable)
Ingress Protection	IP 68
CE-Conformity	EMC Directive: 2004/108/EC

## **Wiring Diagram**



Electrical Connection	Cable Colours  + wh (Red)  - bn (Black) (yellow)
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**DC Power Only** 



# **Ordering Code 100 Series**

Pressure    ft/H20														
Ft/H20			Щ	Щ								Щ	F	$\mathbb{H}$
Thing   Thi	Pressure			, ,								- ' '	<u> </u>	
14.0			1 0 0											
20.0	nput					,	ı					1 1		
Housing  PVC		20.0		1 6	6 0	1								
PVC														
PP         PVDF         P         F         I <th>Housing</th> <th></th> <th>' '</th>	Housing													' '
Ceramics Al2 03   2   0   0   0   0   0   0   0   0   0		PP				А	Р	F						
Ceramics Al₂ 0₃       2       8       9 <th< td=""><td>Diaphragm</td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>                                       </u></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Diaphragm							<u>                                       </u>						
Output         4-20mA /2-wire       1       0	<b>-</b>	Ceramics	Al <sub>2</sub> 0 <sub>3</sub>				2							
Seals         FKM (Standard)       1   3   3   4   4   4   4   4   4   4   4	Output							<u> </u>						1 1
FKM (Standard)       1		4-20mA /	2-wire					1						
Accuracy         ≥0.5% over Full Scale       5       5       1	Seals													
≥0.5% over Full Scale       5   <td></td> <td>FKM (Star</td> <td>ndard)</td> <td></td>		FKM (Star	ndard)											
Electrical Connection           PTFE Teflon Coated cable¹         1         1   <t< td=""><td>Accuracy</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Accuracy													
PTFE Teflon Coated cable¹       1		≥0.5% over	Full Scale							5				
Cable Length           M-Meters,         F-Feet         15M Cable STD         9 <td< td=""><td>Electrical Connection</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td></td<>	Electrical Connection													
M-Meters,         F-Feet         15M Cable STD         9 </td <td>2-1-1-1</td> <td>PTFE Teflo</td> <td>on Coated c</td> <td>able<sup>1</sup></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1  </td> <td></td> <td></td> <td></td>	2-1-1-1	PTFE Teflo	on Coated c	able <sup>1</sup>							1			
Special Version           3M         20FT         15M         50FT         3         5           5M         30FT         5         5	Sable Length	M_Matars	F-Foot		15N/C	ahla S	TD					ololo		
5M 30FT 5	Special Version	WI WICKEIS	, 11000		. Jivi C	abic 3						/ / /		
		5M 10M	30 40	FT		15M		50	FT					1 1 x 0

<sup>\*</sup> cable comes with integrated air tube for atmospheric pressure reference

