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## CWJ Water Pressure/Temperature Transducer

- Prolong the life of water distribution network
- Reduce leakage losses
- Save energy
- Identify water supply performance



## Description

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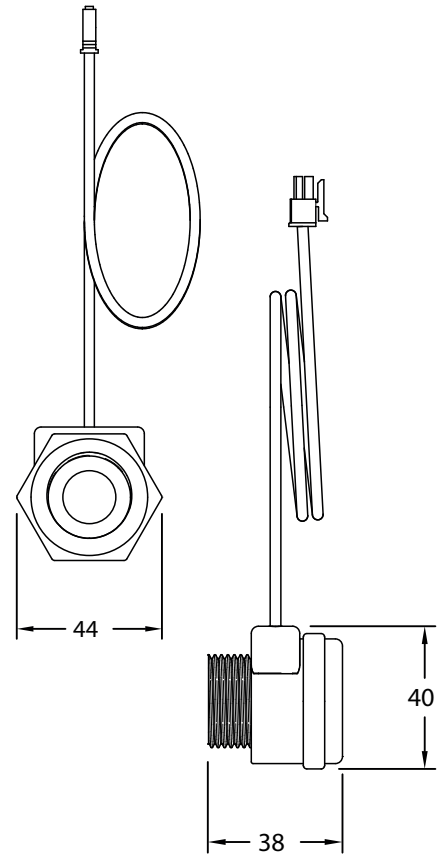
With detailed knowledge about the harmful pressure shocks as well as the network pressure in general, the pressure can be optimized and thereby ensured the customer satisfaction, the reducing of the number of leaks and bursts and the minimising of the energy consumption of the pumps. With two pressure sensors it is possible to get information regarding differential pressure in WDS as well to indicate supply performance and provide knowledge on actual pressure states. CWJ Water Pressure/Temperature Transducer is designed to operate connected to a WWT.

### Installation

CWJ Water Pressure/Temperature Transducer is an IP68 device type tested. It is easily installed upstream of the water meter.

### Measuring speed

CWJ Water Pressure/Temperature Transducer measures with 10 Hz, i.e., 10 times per second. The short intervals between the readings are necessary in order to pick up pressure shocks. In addition to the information about pressure shocks, you get a precise measurement of the pressure and its variation over time.



## Technical Data

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Operating Range	0 - 30 Bar
Max overpressure	50 Bar
Burst pressure	75 Bar
Accuracy	+/-0.2 mBar
Temperature sensitivity	+/- 0.01Bar / 10 °C
Storage temperature	-20 ... 55 °C
Ambient temperature	2 ... 55 °C
Temperature of medium	0 ... 40 °C
Protection class	IP68

## Drinking Water Approval

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CWJ Water Pressure/Temperature Transducer has the “Approved for drinking water” mark (the drop-mark) and is thus approved for use for drinking water.

Info Codes

Drop

The pressure has dropped unexpectedly compared to the current average pressure. The limit varies over time based for calculations of the pressure variation.

Surge

The pressure has surged unexpectedly compared to the current average pressure. The limit varies over time based on calculations of the pressure variation.

High

The current average pressure increases to a configurable limit. The default setting is 15 bar.

Low

The current average pressure drops to a configurable limit. The default setting is 1.5 bar.

Transient

The pressure changes rapidly over short periods of time. The limit varies over time based on calculations of the pressure variation.

Comm. error

The pressure sensor is unable to communicate. This can either be caused by an error in the communication to the radio part or a measurement error. All metering data is based on highly soluble sampling.

Order Information

CWJ Water Pressure/Temperature Transducer				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>Communication</b>				4			
I2C Serial Protocol							
<b>Supply</b>							
NA							
<b>Meter type</b>							
Pressure cold							
<b>Country code</b>				XXX			

Configuration

CWJ Water Pressure/Temperature Transducer						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Unit</b>											
Bar						1					
PSI						2					
hPa						3					
<b>Display</b>											
NA						-					
<b>Absolute/relative</b>											
Absolute							1				
<b>Low [mbar]</b>											
1,500*								1			
2,000								2			
2,500								3			
3,000								4			
3,500								5			
4,000								6			
4,500								7			
5,000								8			
<b>High [mbar]</b>											
5,000									1		
7,000									2		
9,000									3		
11,000									4		
13,000									5		
15,000									6		
20,000									7		
<b>Encryption level</b>											
No encryption										0	
Utility encryption (available on selected markets only)										1	
Encryption with separately forwarded key										2	
Default if not otherwise specified on placement of order						1	-	1	1	6	2

\* Can only be purchased with these predefined values.  
If one of the other values is requested, this must be configured subsequently by means of WaterAMI (Water Automated Metering Infrastructure).