

## 1780 Wireless Level Switch

**The 1780 wireless level switch** is a horizontally mounted, float-actuated level switch which signals the absence or presence of a liquid via the wirelessHART position monitor.

Operation is simple. As the liquid level rises it lifts the float on the 1780 sensing mechanism. This in turn moves a magnet into the field of a Hall Effect sensor within the wireless monitor which then sends notification of position change to the central control system. This design allows the 1780 to be a truly wireless device since there are no wires from the sensing portion to the wireless monitor. The passive nature of the sensor design also means that battery life is maximized since the battery does not have to power the sensor as is the case with other wireless level technologies.

The 1780 is suitable for any plant environment in conjunction with any wirelessHART gateway system. Adding a 1780 to an existing wirelessHART system exponentially strengthens the integrity of the entire network by providing new paths for the data to reach the gateway. In fact, since it is often used as a high-alarm for storage vessels it can provide a more reliable link to the network than ground level devices.

### Product Specifications

<b>Mounting</b>	
Orientation	Horizontal Mount Only
Orientation	2" NPT(M)
<b>Wetted Parts</b>	
Material	316SS
<b>Mechanism Housing</b>	
Material	300 Series Stainless Steel
Rating	NEMA 4X
<b>Maximum Process Pressure</b>	
at 100°F (38°C)	1440 psi (100 bar)
<b>Maximum Process Temperature</b>	
w/o Wireless Module	-40 to 400°F (204°C)
w/ Wireless Module	-40 to 176°F (80°C)
<b>Specific Gravity</b>	
Minimum	0.60
<b>Weight</b>	
w/o Wireless Module	3.5 lbs. (1.6 kg)

**WirelessHART®**



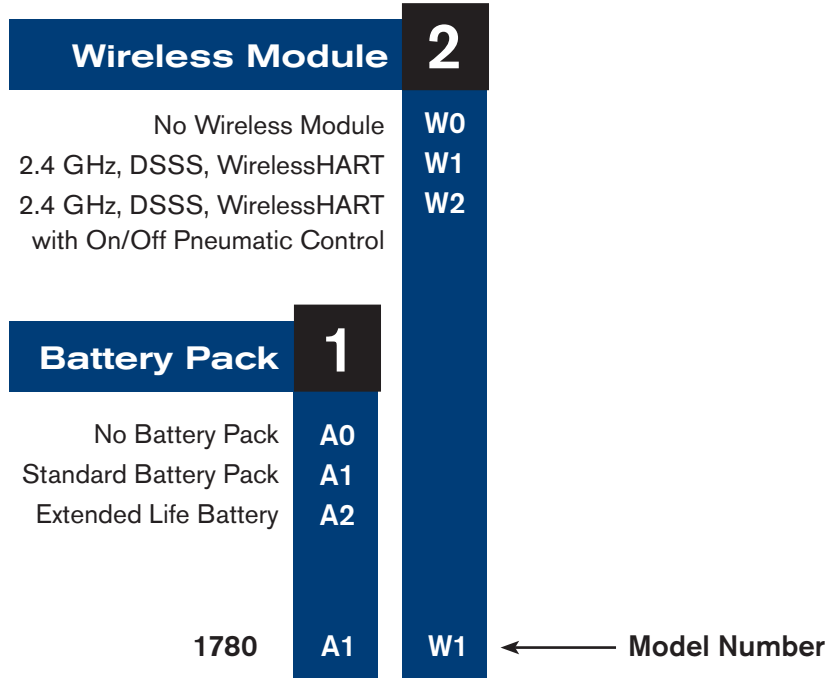
# 1780 Wireless Level Switch

## How to Order

Sample Model Number

**1780** A1 W1

1780 wireless level switch

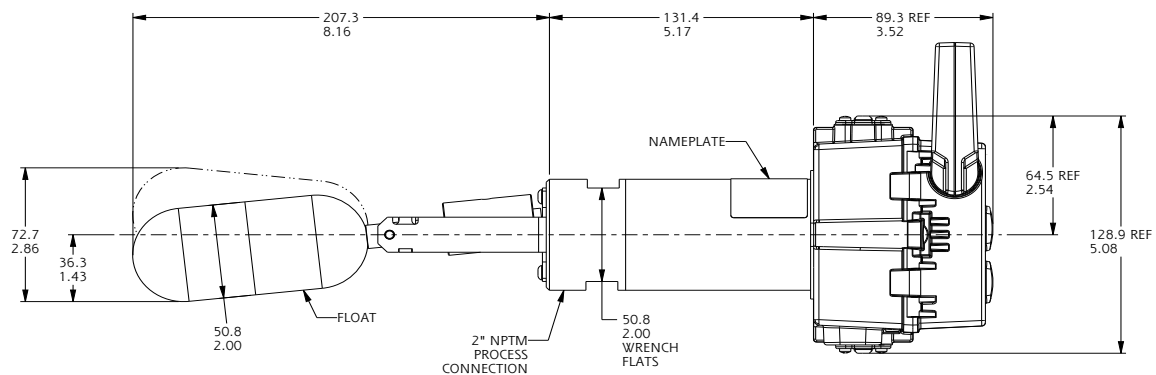


## Dimensions

Design and specifications are subject to change without notice. For latest revision, see sorinc.com.

### Threaded Process Connection with W1 Wireless Module

Linear =  $\frac{\text{mm}}{\text{in.}}$



Drawing 0390759

