

Product Sheet: 2N1R Sensor (Model 76002N1R)

Description

The AquaSmart® 2N1R Sensor is a digital sensor that measures both the boiler water temperature and the presence of water therefore removing the need for a stand alone Low Water Cut-off control. With the 2N1R the sensor can be removed from the Beckett immersion well for service.



Features & Benefits

- Sensor can be removed for service
- Measures both the boiler water temperature and the presence of water (Low Water Cut-off)
- Self checking sensor
- Allows LWCO programmable ON/OFF delays & AUTO/MANUAL reset through AquaSmart control interface.

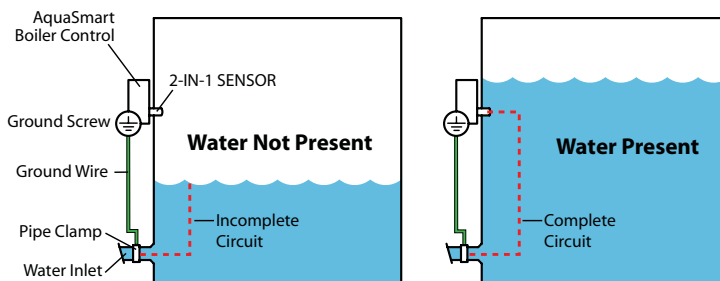
Specifications

Storage Temperature Range: **-40° to 250° F**

Operating Temperature Range: **-32° to 250° F**

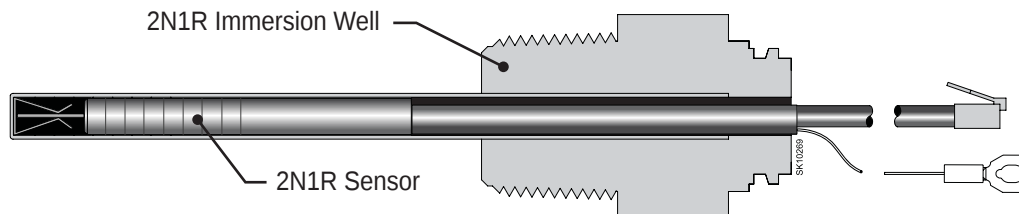
Maximum Pressure: **250 PSIG**

Installation Torque Range (Screw-in): **185 - 200 in/lbs.**



How It Works

The AquaSmart 2N1R Sensor uses the "conduction" method to detect whether water is present in the boiler. This is done by using the water in the boiler itself to "conduct" a signal and complete an electrical circuit. It is necessary that the ground wire from the sensor be bonded to the boiler wall (not the jacket - unless the jacket is bonded to the boiler wall). When water is not present, there is no "conduction" and the circuit is incomplete.



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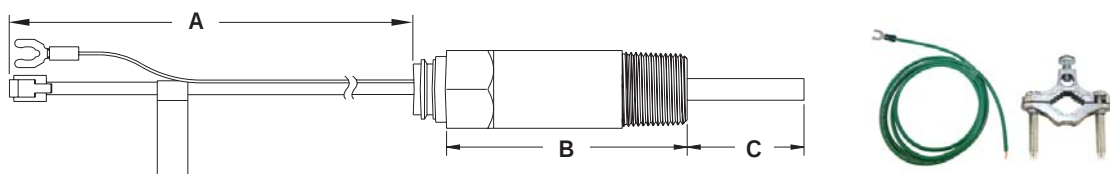
USA: R.W. Beckett Corporation • ph: (800)645-2876 • fax: (440)327-1064 | Canada: R.W. Beckett Canada Ltd. • ph: (800)665-6972 • fax: (519)763-5656

www.beckettcorp.com

Ordering Information: Contact Customer Service at 1-800-645-2876

AquaSmart Boiler Control		
Part No.	Description	
7600A0001U	AquaSmart Boiler Temperature Control - 120Vac - Oil - Temperature Only Sensor (A)	
7600B0001U	AquaSmart Boiler Temperature Control - 24Vac - Gas - Temperature Only Sensor (A)	
7600A000LU	AquaSmart Boiler Temperature Control - 120Vac - Oil - LESS Sensor (B)	
7600B000LU	AquaSmart Boiler Temperature Control - 24Vac - Gas - LESS Sensor (B)	

AquaSmart 2N1R Sensor				
Part No.	Lead Length (A)	Insulation Depth (B)	Insertion Depth (C)	Notes
76002N1R01	8-1/4"	1-1/2"	1-5/8"	- Includes sensor, clamp, and ground wire. 1-5/8" insertion depth is critical for vertical or upper boiler mounting. 7/8" insertion depth is necessary for boilers with short casting clearance.
76002N1R02	6-1/4"	3-1/2"	1-5/8"	
76002N1R05	5"	4-3/4"	1-5/8"	
76002N1R06	8-1/4"	1-1/2"	7/8"	



Also Available		
Part No.	Description	
7600RMU	48" AquaSmart Remote Mount Kit (C)	
7600TSU	Replacement Temperature Only Sensor Unit Pack (D)	