

Sanitary RTD Assemblies

Standard Duty with Protection Head

PRS-S-NB9W Series



3/4" NPT conduit connection.

For Use in CIP and Sanitary Processes

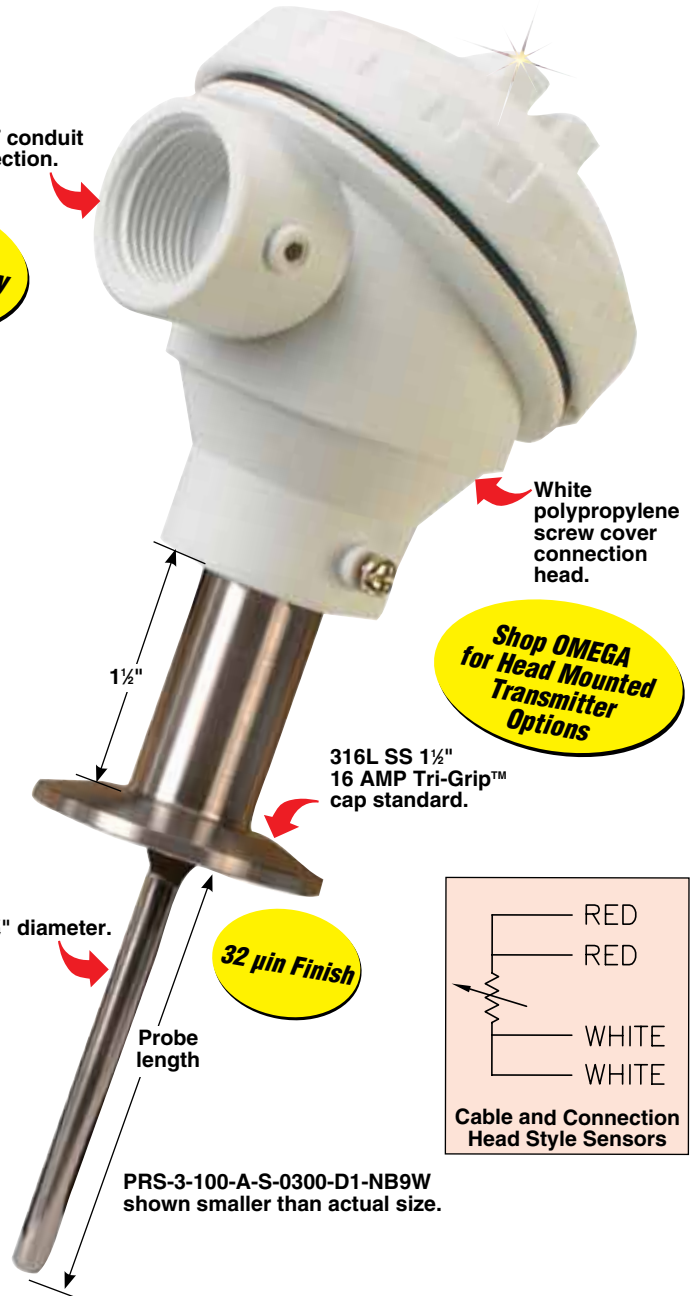
- ✓ Standard Duty 1/4" Probe Diameter
- ✓ 1 1/2" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ White Polypropylene Head with Screw Cap Standard, Optional 316L SS Head Available
- ✓ 316L SS Wetted Surfaces with 32 µm or Better Finish
- ✓ 4-Wire Pt100 Class A Element Standard
- ✓ -50 to 200°C (-58 to 392°F) Temperature Range

Options

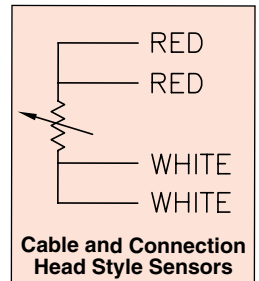
- ✓ Fitting Styles
- ✓ Protection Heads
- ✓ Probe Lengths
- ✓ RTD Elements

Sensor Flange Size Range 3/4" to 4" Tri-Grip™ Process Flange. See OMEGA for Details

The OMEGA® PRS-S-NB9W Series RTD probe assemblies are available in standard lengths from 3 to 6", with a 4-wire Pt100 Class A element (100 ±0.06 Ω at 0°C) that is compatible with 3-wire RTD instrumentation. Standard features include a 1 1/2" 16 AMP Tri-Grip™ fitting, type NB9W white polypropylene protection head with screw cap. Please consult sales for available options, including element types and curves, probe lengths, protection heads and sanitary fitting styles.



Shop OMEGA for Head Mounted Transmitter Options



To Order				
Model No.	Lead Wire Style	Ω at 0°C	Sheath Diameter	Probe Length
PRS-3-100-A-S-0300-D1-NB9W	4-wire	100	1/4"	3"
PRS-3-100-A-S-0400-D1-NB9W	4-wire	100	1/4"	4"
PRS-3-100-A-S-0500-D1-NB9W	4-wire	100	1/4"	5"
PRS-3-100-A-S-0600-D1-NB9W	4-wire	100	1/4"	6"

Optional protection heads: To order with NB15 large 316 SS head, change model number suffix from "-NB9W" to "-NB15" for additional cost.

Note: Please consult sales for available options, including element types and curves, probe lengths, and sanitary fitting styles.

Ordering Examples: PRS-3-100-A-S-0400-D1-NB9W, 4-wire Pt100 RTD sensor (100 Ω @ 0°C, Class A accuracy), 1 1/2" 16 AMP Tri-Grip™ fitting, 4" length, standard duty probe, NB9W white polypropylene screw cap protection head.

PRS-3-100-A-S-0400-D1-NB15, 4-wire Pt100 RTD sensor (100 Ω @ 0°C, Class A accuracy), 1 1/2" 16 AMP Tri-Grip™ fitting, 4" length, standard duty probe with NB15 316 SS screw top cap protection head.

Sanitary RTD Assemblies

Heavy-Duty with Protection Head

PRS-H-NB9W Series



74-05

- ✓ Heavy-Duty Probe Design With Stepped Probe Stem for Additional Strength
- ✓ 1½" 16 AMP Tri-Grip™ (Tri-Clamp® Compatible) Fitting Standard
- ✓ White Polypropylene Head with Screw Cap Standard, Optional 316L SS Connection Head Available
- ✓ 316L SS Wetted Surfaces with 32 µin or Better Finish
- ✓ 4-Wire Pt100 Class A Element Standard
- ✓ -50 to 200°C (-58 to 392°F) Temperature Range

Options

- ✓ Fitting Styles
- ✓ Protection Heads
- ✓ Probe Lengths
- ✓ RTD Elements

Sensor Flange Size Range ¾" to 4" Tri-Grip™ Process Flange. See OMEGA for Details

The OMEGA® PRS-H-NB9W Series RTD probe assemblies are available in standard lengths from 3 to 6", with a 4-wire Pt100 Class A element ($100 \pm 0.06\Omega$ at 0°C) that is compatible with 3-wire RTD instrumentation. These heavy-duty probes have a ¾" diameter, which steps down to a ⅜" dia at the probe tip, for fast response and additional strength. Standard features include a 1½" 16 AMP Tri-Grip™ fitting, type NB9W white polypropylene protection head with screw cap. Please consult sales for available options, including element types and curves, probe lengths, protection heads and sanitary fitting styles.



PRS-3-100-A-H-0300-D1-NB9W shown smaller than actual size.

To Order

Model No.	Lead Wire Style	Ω at 0°C	Sheath Diameter	Probe Length
PRS-3-100-A-H-0300-D1-NB9W	4-wire	100	¾"	3"
PRS-3-100-A-H-0400-D1-NB9W	4-wire	100	¾"	4"
PRS-3-100-A-H-0500-D1-NB9W	4-wire	100	¾"	5"
PRS-3-100-A-H-0600-D1-NB9W	4-wire	100	¾"	6"

Optional protection heads: To order with NB15 large 316 SS head, change model number suffix from "-NB9W" to "-NB15" for additional cost.

Note: Please consult sales for available options, including element types and curves, probe lengths, and sanitary fitting styles.

Ordering Examples: PRS-3-100-A-H-0400-D1-NB9W, 4-wire Pt100 RTD sensor (100 Ω @ 0°C, Class A accuracy), 1½" 16 AMP Tri-Grip™ fitting, 4" length, heavy-duty probe, NB9W white polypropylene screw cap protection head.

PRS-3-100-A-H-0400-D1-NB15, 4-wire Pt100 RTD sensor (100 Ω @ 0°C, Class A accuracy), 1½" 16 AMP Tri-Grip™ fitting, 6" length, heavy-duty probe, NB15 316 SS screw cap protection head.