

# Bently Nevada Service Manual

330302-000-011-20-90-01-00

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## 1. Description

Manufacturer : Bently Nevada

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## 3. Product Information



Manufacturer : Bently Nevada  
 Product No. : 330302-000-011-20-90-01-00  
 Product type : 3300 High Temperature Probe  
 Made in U.S.A  
 Unthreaded Length Option: 000 = 0mm  
 Overall Case Length Option: 011= 11mm  
 Hardline Length Option : 20= 2.0 metres (6.6 feet)  
 Total Length Option: Note: Extension cable is included with the proximity probe. : 90 = 9.0 metres (30 feet)  
 Extension Cable Armor Option: 01 =With stainless steel armor  
 Agency Approval Option : 00 = Not required  
 Probe dc Resistance  
 Probe Length (m) 2.0  
 Resistance from the Center Conductor to the Outer Conductor (RpROBE) (°hms) 5.82  
 Incremental Scale  
 Factor (ISF)  
 3.94 V/mm (100  
 mV/mil) ±9.65%  
 including  
 interchangeability  
 error when measured  
 in increments of 0.5  
 mm (20 mils) over the  
 4.0 mm (160 mil) linear  
 range.  
 Deviation from best fit  
 straight line (DSL)  
 Less than ±78 |xm  
 (±3.1 mils).  
 System performance  
 over extended  
 temperatures  
 Over a probe  
 temperature range of  
 22oCto+350°C  
 (72oFto+662oF) the ISF  
 remains within ±30%  
 of 3.94 V/mm (100  
 mV/mil), the DSL  
 remains within ±0.51  
 mm (±20 mils).  
 Frequency Response  
 0 to 6 kHz: +0, -3 dB  
 typical, with up to 305  
 metres (1000 feet) of  
 field wiring.  
 Recommended  
 Minimum Target Size  
 30.5 mm (1.2 in)  
 diameter (flat target)  
 Recommended  
 Minimum Shaft  
 Diameter  
 152 mm (6.0 in)  
 Probe Tip  
 Material Ceramic  
 Probe Case  
 Material AISI 316L stainless steel (SST).  
 Probe  
 117 g/m (1.26 oz/ft) of



hardline cable + 12 g/cm  
(1.07 oz/in) of case  
Operating  
and Storage  
Temperature  
-34°C to+350°C (-30°F to  
+662°F)

