Bently Nevada 9200 Series Service Manual

9200-09-01-02-00

1. Description

Part Number:9200-09-01-02-00

3. Product Information

Part Number:9200-09-01-02-00

Model: Two-Wire Velocity Seismoprobe Transducer

Manufacturer: Bently Nevada

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Ordering Information

Model 9200 =Two-wire Transducer

Transducer Mounting Angle/Minimum Operating Frequency Option 09 =0 ±180, 15 Hz (900 cpm)

Connector Option 01 =Top Mount (no cable)

Mounting Base Option 02= Circular; 1/4-28 UNF stud

Agency Approval Option 00 = No approvals required

Sensitivity

20 mV/mm/s (500 mV/in/s),

±5% when properly terminated

and oriented at the angle of

calibration.

Calibration

Load

10 kΩ Terminal "A" to "B" Output

taken across pins "A" and "B"

Sensitivity

Temperature

Coefficient

0.2%/°C

Dynamic

operating

range

2.54 mm (0.100 in) peak to

peak maximum displacement.

Velocity

Range

25 mm/s (1 in/s) (at +22 °C of

casing vibration at 100 Hz with

a 10 kΩ load.

Coil

Resistance 1.25 kΩ ±5%

Locked Coil

Inductance 125 mH, typical

Operating

and Storage

Temperature:

9200: -29°C to +121°C

(-20°F to +250°F).

74712: -29°C to +204°C

(-20°F to +400°F).

Environment

Dust and moisture resistant.

Relative

Humidity

To 95%, noncondensing.

100%, non-submerged, when

ordered with integral cable.

Case and

Adapter

Material

Anodized aluminum A204

Gasket

Material

9200: Neoprene

Height

102 mm (4 in) typical

(depending on connector

option).

Diameter 41 mm (1.6 in) typical.

Weight

9200

= 300 grams (10.5

ounces) typical.

Compliance and

Certifications

FCC

This device complies with part 15 of the

FCC Rules. Operation is subject to the

following two conditions:

l This device may not cause harmful

interference.

l This device must accept any

interference received, including

interference that may cause

undesired operation.

EMC

European Community Directive:

EMC Directive 2014/30/EU

Standards

EN 61326-1; Immunity/emission for

Industrial Environments

RoHS

European Community Directive:

RoHS Directive 2011/65/EU

Hazardous Area Approvals

cNRTLus

Class I, Division 1, Groups A, B, C and D;

Class II, Groups E, F and G; Class III:

Install per drawing CA 22000

Class I, Zone 2: A/Ex nA IIC T6 Gc;

Class I, Zone 2: A/Ex ec IIC T6 Gc:

T6 @ Ta = -20°C to +40°C

ATEX/IECEx

II 1 G Ex ia IIC T6 Ga

II 3 G Ex nA IIC T6 Gc

II 3 G Ex ec IIC T6 Gc

T6 @ Ta = -20°C to +40°C