

Service Bulletin 529

ISSUED 10/28/2022

New DEG3 Temperature Sensor Series **P/N's 691212-232 / 691213-232 / 691213-232B**

The DEG1 and DEG2 temperature sensors have been available for use with DE-4000, DE-3000, DSM-4600 and DSG-1600 products for 20+years and are a low-cost alternative to thermocouples in many cases. The DEG2 and **new** DEG3 have an upper temperature range of 450 degrees F, so these are good choices for compressor discharge temperatures as well as other critical temperatures that are above the DEG1's upper limit of 300 degrees F.

Unfortunately, the sensor component used to manufacture the DEG2 has become obsolete, and Altronic has a limited supply of these components to continue to manufacture the DEG2 (likely to be an estimated 1-2 year supply). Menu's in Altronic devices have selections for the DEG1 and DEG2, and the only product that can be easily updated to accommodate the DEG3 calibration (Menu Selection) with a software update is the DE-4000. Since the DEG3 has a different temperature vs. voltage output, the DEG3 cannot be directly substituted in place of the DEG2. An in-line voltage converter to convert the DEG3 to DEG2 voltage output is in process of being designed and will be available as supplies of the DEG2 run out. This will be a modestly priced item and should not impact the existing applications to any degree when DEG2 product becomes obsolete. To that end, all DE-4000 applications will now be quoted with the DEG3. DEG2 orders will be limited to replacements for service-related issues, and as supplies are depleted of the DEG2, the adapter will be made available at modest cost to accommodate the DEG3 as a service item to replace the DEG2.

Each of the DEG sensors can be identified by their part number label on the connector. In addition, an additional label marked DEG3 is added to the package box and bag to help identify the DEG3 sensor from the DEG2 sensor.

DEG1 – 691202-300 / 691203-300

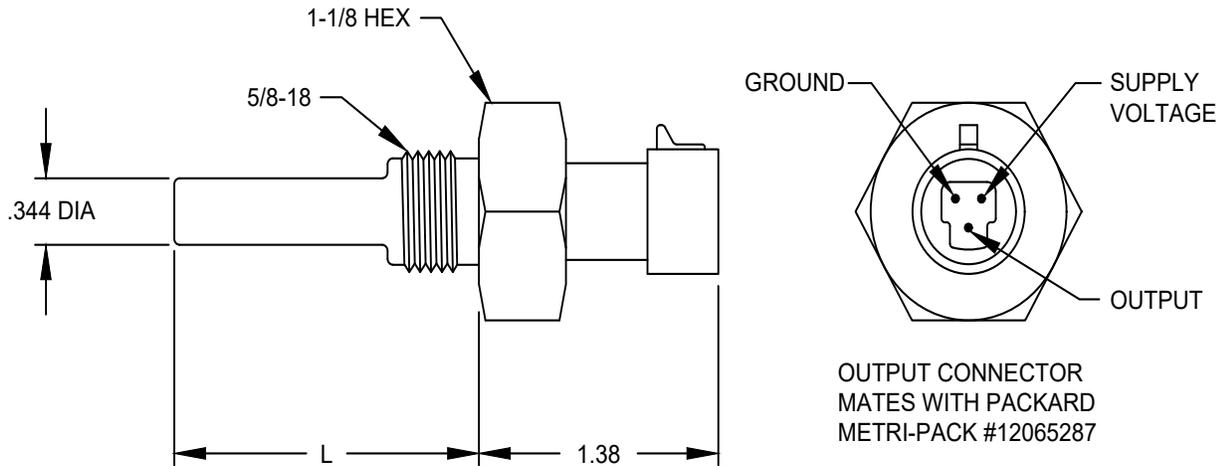
DEG2 – 691212-450 / 691213-450 / 691213-450B

DEG3 – 691212-232 / 691213-232 / 691213-232B

The data sheet for the DEG3 is on the second page of this Service Bulletin and includes part numbers of the various lengths. The DEG3 is available for purchase at the time of this Bulletin.

DEG3 TEMPERATURE TRANSDUCER

P/N 691212-232 / 691213-232 / 691213-232B



USE ALTRONIC PART NUMBER 693 008-X FOR THE MATING CABLE.

L	PART NO.
1.75	691212-232
5.75	691213-232
3.75	691213-232B

L	PART NO.
5'	693 008-5
10'	693 008-10
15'	693 008-15
25'	693 008-25
50'	693 008-50

SPECIFICATIONS:

EXCITATION VOLTAGE: +5VDC, 5mA MAX

NOMINAL OUTPUT VOLTAGE RANGE: 2.30 TO 3.26V (-40°F TO 450°F)

SENSOR TYPE: PT1000, RTD

CASE MATERIAL: 300 SERIES STAINLESS STEEL

ACCURACY: ±1% OF READING, ±3°F

OPERATING TEMPERATURE: -40 TO 450°F (-40 TO 232°C)

STORAGE TEMPERATURE: -40 TO 572°F (-40 TO 300°C)

INSTALLATION: Use a 1-1/8" wrench to tighten the transducer. Mount the temperature transducer in a thermowell on the engine or machine. The actual sensor is located at the bottom of the transducer, so to ensure accurate readings the tip of the probe should be surrounded by the media.

CAUTION: DO NOT exceed the absolute maximum temperature range of the transducer which is 572°F. DO NOT use for exhaust temperature monitoring, exhaust temperatures may exceed the maximum temperature rating.

ALTRONIC

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712 Trumbull Avenue / Girard, Ohio 44420

(330) 545-9768 / Email: sales@altronic-llc.com

www.altronic-llc.com