

Product Marketing Bulletin

Subject: Motor Protection Modules Used With Kriwan Sensors

As part of our continued product improvement, all H2NG & H7NG compressors will be converted to use Kriwan motor protection sensors. There will be a period of transition during which time both Texas Instruments & Kriwan sensors will be used.

Please note that ICM parallel module, AE7113 (Bristol p/n 241731), and some older MP-50/15AA modules **are not compatible** with the Kriwan sensors. Use only the Kriwan, Texas Instruments, and ICM modules shown below with the Kriwan sensors.

Parallel Modules

TI 31AA1105A (Bristol 241679) TI 31AA1606E (Bristol 241680) TI 41AA1606E (Bristol 241745) Kriwan INT369R 31A276S23 (Bristol 241770) 22A276S23 (Bristol 241771)

Series Modules

ICM 7110 (Bristol 241732) ICM 7111 (Bristol 241733) ICM 7112 (Bristol 241734) Kriwan INT169R 31A277S23 (Bristol 241772) 22A277S23 (Bristol 241774)

The type of sensor can be verified by measuring their resistance as follows.

Parallel Resistance (measured from Common to each sensor)
Texas Instruments 25 °C sensor resistance = 500 - 2500 ohms
Kriwan 25 °C sensor resistance = 30 - 100 ohms

Series Resistance (measured across the two sensor leads)
Texas Instruments 25 °C sensor resistance = 1500 - 7500 ohms
Kriwan 25 °C sensor resistance = 90 - 300 ohms

NOTE: Should an incompatible module be used with Kriwan sensors, the compressor will not start (i.e. M1-M2 on the module will remain open).