

C0006

Oil Pressure Alarms

Purpose:

To advise the field of factory changes to reduce the chance of nuisance oil pressure alarms on 19XR centrifugal chillers with PIC II controls when the operating oil pressure is satisfactory and stable or when the compressor is shutdown.

Information:

The factory has added capacitors to the oil pump discharge pressure transducer (6/99) and the oil sump pressure transducer (5/2000). The capacitors smooth out the oil pressure transducer signals without affecting oil pressure sensing while the compressor is operating or when shutdown.

Also, the recently released Ver. 04 software checks to see if oil pressure exceeds the 4 psi limit only for 10 seconds immediately before start up instead of continuously when the chiller is off.

Corrective Action:

If the oil pressure reads good but nuisance trips are experienced on chillers prior to factory fix dates, two 100 microfarad electrolytic capacitors, rated for 16 volts or higher can be added to the transducer connections as shown in the figure below. Note that the negative ends are connected to J3-1 and J3-4.

The capacitors will not help if the oil pressure is dropping due to mechanical problems with the oil pump, regulator or refrigerant dilution of the oil.