

CONTHERM *Scientific Limited*

TECHNICAL MEMORANDUM

PRODUCT :PRECISION PLCS4/5

No : 0079

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FROM : Contherm Scientific Ltd

DATE : 12/03/2002

TO : ALL AGENTS

SUBJECT: ZP24 Alarm PCB Field Retrofit Kit

This kit is designed to allow a ZP24 Alarm PCB to be retrofitted to a PLCS4/5 control system in the field.

The ZP24 PCB is a small (80mm x 50mm) pcb which connects to the I2C bus outputs from the PLCS4/5 interface board and provides a relay with NO/NC contacts to operate an external alarm system. The ZP24 also incorporates a small piezo alarm.

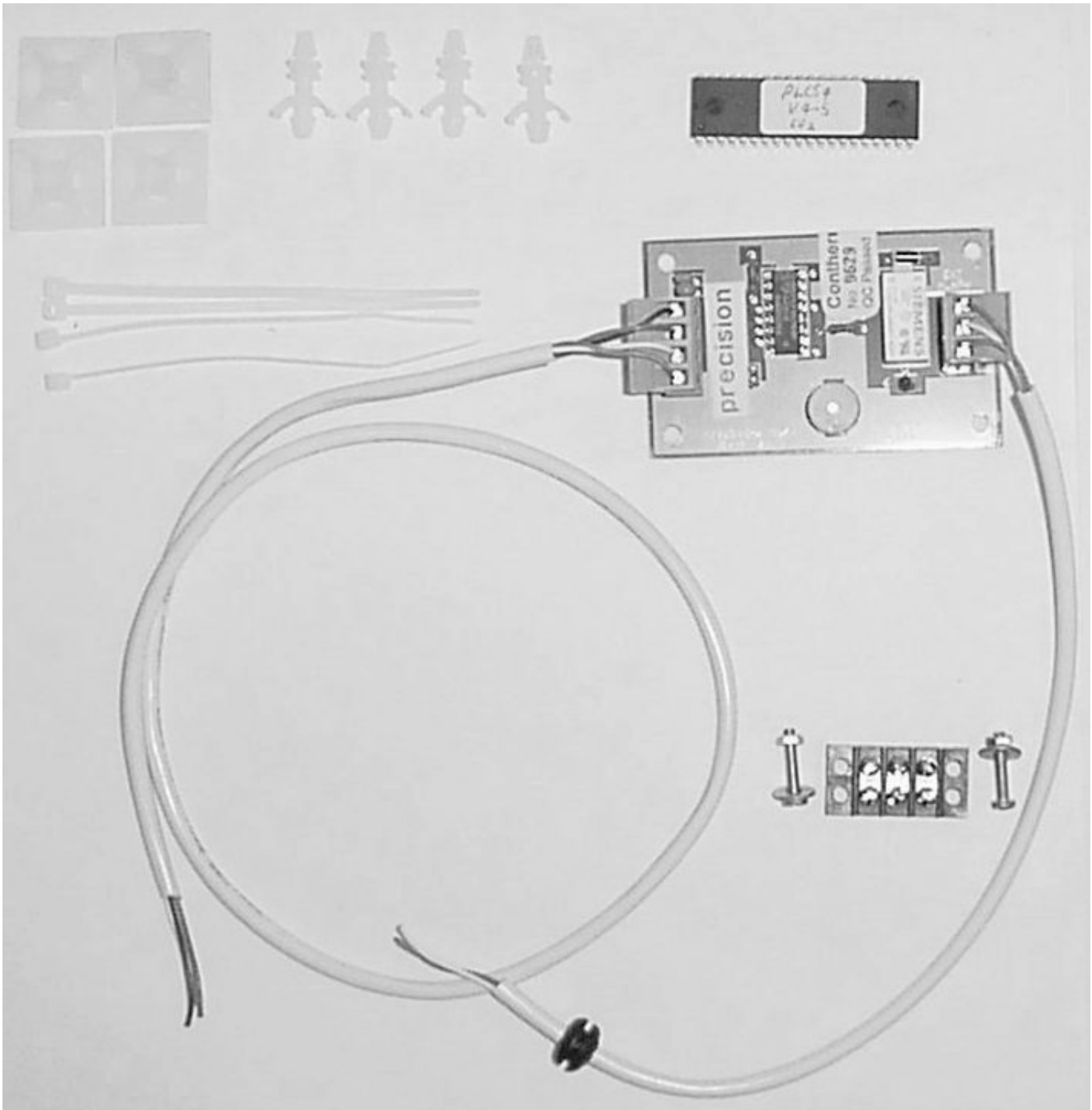
Parts Supplied:

- 1 x ZP24 Alarm PCB
- 4 x PCB Standoff (STANDOF PCB2)
- 1 x 4 way connector prewired with 600mm of cable.
- 1 x 3way connector prewired with 300mm of cable.
- 1 x 3way external alarm connector (Farnell Pt:105-364)
- 2 x M3 machine screws for external connector (SCREW 01)
- 2 x M3 full nuts (NUT 04)
- 2 x 3mm washers (WASHER 01)
- 1 x rubber grommet (GROMMET 1)
- 4 x Wire Tie sticky pads
- 4 x Wire ties
- 1 x ZP24 Schematic and WIRING diagram. (500-41)

The ZP24 PCB must be mounted inside the top of the Contherm cabinet, drill 4 x 4.5mm holes adjacent to the PLCS4/5 interface PCB so that the wire reaches from the ZP24 PCB to the Computer output terminals on the PLCS4/5. Fit the PCB standoffs into the holes and attach the PCB. At the external rear of the cabinet (within reach of the three wires from the alarm PCB output) drill a 9mm hole suitable to take the rubber grommet above the external alarm connector. Drill two 3.3mm holes and attach the external connector strip to the cabinet using the two machine screws provided.

Feed the wires to the external alarm connector through the grommet and connect them to the connector. The four I2C data lines should be connected to the like connector inputs (+5v,SCL,SDA,GND) on the PLCS4/5 Interface PCB.

If required fit a new CPU to the PLCS4/5 Interface PCB, ensuring that all the pins are inserted correctly and any EMC shield (if fitted) is reinstalled. (New CPU should ONLY be required for PLCS4 with version prior to V4.2 – Extra charge for CPU)



Above picture shows complete alarm kit parts.
Also included should be the ZP24 schematic diagram 500-41.

Apply power to the cabinet and check for normal operation. The alarm relay will be energised under normal conditions, dropping out when an alarm occurs or power is removed from the cabinet.