

CONTHERM SCIENTIFIC LTD

TECHNICAL MEMORANDAM

PRODUCT : PLCS4

No : 0027

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TO : ALL AGENTS

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SUBJECT : Firmware revisions with PLCS4 control systems.

1) CPU Firmware versions:

There have been a number of CPU version upgrades for the original PLCS4 Precision series of controllers. Some of the changes have been in response to feedback from field testing of the products and others to allow additional features to be incorporated into the existing design, this Techmemo sets out a summary of the versions available up to the current time.

A) Original PLCS4 Versions

V1.0	16/4/91 - Original version as fitted to the first product. (NO PRODUCTS IN FIELD)
V1.1	20/8/91 - First full release to market (3 PRODUCTS)
V1.2	27/1/92 - Improved diagnostics and programmable RH calibration routine.
V1.3	4/3/92 - Shorter defrost interval when running at high humidities & low temperatures.
V1.4	22/4/92 - Improved low limit alarm with delay.
V1.5	5/5/92 - New Diagnostic & calibration routines, Manual CO2 calibration, Ability to disable Alarm, door heater & defrost. 'ON' & 'OFF' for lighting.

Version 1.5 is the latest release and uses the 68HC705C8 CPU.

The program capacity on the C8 CPU has been reached, it is envisaged to change to a version with a larger program capacity in the near future this will be the 68HC705C9. When this chip is available we will add further facilities to give enhanced operation and remote diagnostics.

The firmware versions for the new chip will be V2.?.

B) HARDWARE :

There have been TWO version of the PLCS4 INTERFACE PCB. The main differences are in the use of the terminal strip types.

V1.0 - The original PCB (10 PRODUCTS IN FIELD)

V2.0 - Revised layout to fix any problems and to allow

use of better mains terminal strips, new printer connectors.