

NUMBER: 18 DATE: May 22, 1998 x APPLICATION x SERVICE

SUBJECT: DPY-4118U-A modification to increase battery “shelf” life

Altronic has made a modification to the DPY-4118U-A to increase battery “shelf” life

The DPY-4118U-A, serial numbers 2701 - 3078, will have a lower battery “shelf” life than previous models DPY-4109/4118 and DPY-4118U. As shipped, the expected “shelf” life of the battery (device in OFF state) is approximately 1.5 years at room temperature. As modified, the expected “shelf” life should approach 5 years. Life will decrease with increasing temperature. The operating life of the batteries in an application will depend on (besides temperature) the frequency of operation of the readout. About 1,000 readout cycles is the expected life without consideration of the drain during the off periods. Only the OFF state current drain is affected in the situation being addressed.

In order to address the situation where a user would like to extend the battery life of his current device, Altronic has developed a field modification procedure that can be carried out by the customer or service technician the next time that the batteries are replaced. NOTE: This modification should only be performed on serial numbers 2701 through 3078. The procedure is as follows:

1. Loosen the four screws through the front keypad so that the device comes apart.
2. Remove the three batteries from their sockets.
3. Remove the three small screws holding the circuit board to the front keypad plate. **DON'T LOSE THESE SCREWS.**
4. On the display side of the board, locate resistor R11B in the lower left corner of the board (see diagram)*. Using small wire cutters, carefully cut the leads at each end of resistor R11B and remove. NOTE: Take care not to damage or contact resistor R11C immediately above the resistor being removed.
5. Reassemble the circuit board to the keypad plate with the three small 6-32 screws.
6. Install three new batteries, Duracell PX28L or Sanyo 2CR-1/3N (Altronic 601248) taking note of the correct polarity.
7. Reassemble the pyrometer and secure the four screws through the front keypad.

*see diagram on back

PYROMETER UPDATE
DPY-4118U-A

