



High Reliability Test/Measurement Equipment and Instrument Controls

APPLICATION NOTE



3683



3610



3590



H-516

INTRODUCTION

Bourns is a supplier of high-precision dial face potentiometers for use in high reliability equipment. The devices are typically front panel mounted and may be used in industrial and medical applications for test and measurement equipment. The same type of potentiometers may be frequently found in instrument control panels of an aircraft. The dial face is utilized for precision setting and adjustment of equipment parameters.

THE PROBLEM TO BE SOLVED

Bourns has introduced several dial face precision potentiometers over the years. As digital equipment and circuitry becomes more prevalent, the need for high precision dial face potentiometers in the market has diminished. Products such as the Model 3640 and 3650 have been phased out due to this drop in demand. However, there remains a reduced but consistent demand for repair and replacement of devices in existing systems. Some systems require the high power of a wirewound product over the alternate non-wirewound product options available.

SOLUTION

The Bourns® Model 3610 10-turn precision potentiometer with 1.5 watt power handling capability is a suitable alternate in some applications. For new designs, engineers may also consider using the Model 3680 Series digital pushbutton precision potentiometer which has a 2 watt power handling capability. An alternate solution is to use traditional industrial grade rotary precision potentiometers such as Model 3540, 3549 or 3590 with a turns-counting dial such as the H-516, H-46, H-22 or any of a selection of Bourns® turns-counting dials. In general, most equipment and instrument panels have plenty of space available to accommodate a regular size precision potentiometer with a dial mounted on the front panel. Bourns has a high reliability solution for your test and measurement equipment or instrument control needs.

ADDITIONAL RESOURCES

For more information on Bourns® Sensors and Controls, visit Bourns online at:

www.bourns.com

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