



INNOVATIVE MEASUREMENT TECHNOLOGY

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Digital Measuring Electronics

Type EDK 93

- ❑ **Four Channel**
- ❑ **Linearity 0.01 %**
- ❑ **Resolution 0.01 μm**
- ❑ **Mass Data Store**



EDK 93 is a compact, four channel, high accuracy measuring station that can be operated remote from any computer and power source with ability to store up to 6000 measured values. If operating away from a power source the optional internal battery pack will provide eight hours of continuous operation. Other options include a real time clock for use in data acquisition and storage. The digital display is a high efficiency LED 14mm, 5 ½ digit. When using a custom engineered program, an 8 digit alphanumeric display is available.

EDK 93 has 6 output lines (3 on the standard model) and 3 input lines. Internal relays provide limit outputs both high and low while a further 15 levels of visual tolerance are displayed on the front panel.

Transducers are matched to the system having conditioning and linearising components assembled in the DB9 connector providing a system linearity of 0.01% when using transducers up to +/-5mm range. Sampling of channels is carried out in pairs where each pair is simultaneously scanned.

The System can operate directly with a computer or can perform tasks remotely storing data for later analysis if needed.

Specification

Instrument Type	<i>EDK 93</i>										
Number of Channels	<i>Up to 4 Digital Measuring Transducers</i>										
Compatible Transducers	<i>Half Bridge, LVDT specially calibrated with linearising circuits in DB9 connector.</i>										
System Linearity	<i>Better than 0.01% using calibrated probes</i>										
Digital Display	<i>5½ digit, 14 mm high efficiency HP-LED or 8 digit Alpha Numeric, 5 mm HP-LED, 3 LED's as tolerance indicator, 5 x 5 red, green and yellow.</i>										
Resolution (in ±1 mm)	<table><thead><tr><th><i>Sample Rate</i></th><th><i>Resolution</i></th></tr></thead><tbody><tr><td><i>15 Hz</i></td><td><i>0.01 µm</i></td></tr><tr><td><i>25 Hz</i></td><td><i>0.01 µm</i></td></tr><tr><td><i>50 Hz</i></td><td><i>0.02 µm</i></td></tr><tr><td><i>100 Hz</i></td><td><i>0.05 µm</i></td></tr></tbody></table>	<i>Sample Rate</i>	<i>Resolution</i>	<i>15 Hz</i>	<i>0.01 µm</i>	<i>25 Hz</i>	<i>0.01 µm</i>	<i>50 Hz</i>	<i>0.02 µm</i>	<i>100 Hz</i>	<i>0.05 µm</i>
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Keyboard	<i>Integrated flat keyboard with mechanical response. Option of external keyboard or individual push buttons (and foot switch).</i>										
Operating Program Modes	<i>Standard Program user programmable, up to 4 transducers. Special Program Library made to order and downloaded from PC.</i>										
Standard Input/Output	<i>RS232C</i>										
Data Logger Function	<i>Memory space for 6000 measure values (battery back-up). Data transfer via RS232 to computer.</i>										
Relay Outputs (tolerance)	<i>1 high, 1 low with up to 15 visual levels</i>										
Power supply	<i>Low voltage adaptor in mains plug. Option of rechargeable battery for 8 hours duration. Option of Real Time Clock.</i>										