The Model 142 is a small, portable battery-powered recorder which offers multiple span input ranges from 1 mV through 10 volts with a variable attenuator to 100 volts. The chart drive has ten speeds ranging from 0.5 cm/hour to 10 cm/minute. Using roll chart paper 30 meters long, tests can be run over a long period of time, and a permanent record is maintained.

This unit features a unique servo drive system that practically eliminates dead band, plus an electronic servo “shutdown” for off-scale protection. 

The internal battery pack provides many hours of recording on a fully charged battery. To recharge battery, simply plug it into a wall receptacle. Up to 200 charges can be made on one battery.

Being battery operated and only eleven pounds light, the 142 is easy to carry into the field for necessary tests where ac power is not available.

General Specifications

- Number of Channels: 1
- Full Scale Span (Switch Selected): 1, 10, and 100 mV; 1 and 10 Volts with variable 10:1 attenuator to 100 Volts dc
- Input Type: Single ended (floating, up to +100 V)
- Input Impedance: 2.5 MΩ

Chart Width: 100 mm
Chart Speeds: 0.5, 1, 2, 5, 10 cm/minute and cm/hour
Writing Method: Disposable fiber-tipped pens
Accuracy: Overall limit of error > ±0.5%
Response Time: > 0.5 sec. full scale
Zero Adjust: Continuously adjustable from -100% to +100%
Power: +12 Vdc battery, recharges on 115/230 Vac
Battery Life: 6 hours to over 1 week (dependent on chart speed and recording rate)

Weight: 5 kg (11 lb)
Dimensions: 158.8 H x 222 W x 292.1 mm D (6.25 x 8.75 x 11.5”)
Accessories Furnished: One disposable pen, one roll chart paper, one instruction manual, one rechargeable battery (internal)
Works with Thermocouples! Use 1 or 10 mV range and a cold junction compensator or a digital instrument with analog output.

MCJ-J, miniature cold junction compensation sold separately, $99, see page K-21.
ICSS-18G-12 shown, $27, see page A-67.
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**