Introduction
Adept Circular Chart recorder is an economical, all-purpose recorder that can handle a variety of Process or Electrical parameters.

A variety of options such as Digital Display, Square Rooting, 2 Wire Transmitter Power Supply, Alarms allow you to select the recorder that best meets your needs.

Salient Features
- Robust, Reliable
- Modular Construction
- Simple principle of operation
- Circular chart for ease of reading of previous record
- Disposable Fibre Tip Pen
- Std. DIN packaging 144 x 144 mm

Applications
- Recording trends of Process Variables
- Recording of Electrical Quantities
- Petrochemical Industry
- Synthetic Fibre Industry
- Fertilizer Industry
- Power Plants, Steel Plants
- Cement Plants
- Boiler Houses, Process Houses

Specifications
- Input Range : As specified in Ordering Information
- Chart Size : 270mm diameter
- Calibrated Radius (Linear) : 100mm
- Chart Speed Accuracy : ± 2% at 25°C with nominal voltage at 50Hz
- Step Response Time : Less than 3 seconds
- Accuracy : ± 1% of Span at 25°C
- Ambient Conditions : 0 - 50°C, 10 - 90 %, RH Noncondensing
- Effect of Temperature : Less than ± 0.5 % of Span per 10°C
- Alarm / Control Contacts (Optional) : Rated at 1 A, 240 V AC Resistive Load
- Common Mode Rejection : ± 0.5 % Span error max for 240 V AC rms 50 Hz
- Series mode Rejection : ± 0.5 % Span error max for 100 % rms 50 Hz
- Power Consumption : For 3230 : 7.5 VA
- For 3240 : 15 VA
- Insulation : More than 50 Mohms at 500 V DC between all terminals shorted & the case
- Dielectric Strength : 2kV, 50 Hz, for 1 minute, between all terminals shorted and the case

For T/C and PT-100 inputs, open sensor indication-Upscale standard.
For T/C input automatic cold junction compensation is provided.
Ordering Information

POWER SUPPLY:
1) 110± 15% V AC, 50 Hz
2) 240± 15% V AC, 50 Hz
For DC/AC Operation consult Factory

CHART SPEED:
1) 1 Rev / 24 hr
2) 1 Rev / 7 days
3) 1 Rev / 8 hr
4) Special, Please specify

INPUTS AND RANGES:
1) DC, VOLTAGE: Specify Scale marking / Engg. Unit
   a) 0-10 mV, 100 Kohms   b) 0-100 mV, 100 Kohms
   c) 0-1 V, 100 Kohms   d) 0-10 V, 100 Kohms
   f) Special, Please specify

2) DC CURRENT: Specify Scale marking / Engg. Unit
   a) 0-1 mA, 1000 ohms   b) 0-5 mA, 200 ohms
   c) 0-10 mA, 100 ohms   d) 0-20 mA, 75 ohms
   e) 4-20 mA, 75 ohms    f) Special, Please specify

3) AC VOLTAGE: Specify Scale marking
   a) 0-10 V    b) 0-50 V    c) 0-75 V    d) 0-125 V
   e) 0-150 V   f) 0-250 V   g) 0-300 V   h) 0-500 V
   i) 0-600 V   j) 50-75 V   k) 85-135 V   l) 150 - 300 V
   m) 175-275 V n) 300-500 V o) Special, Please specify

4) AC CURRENT: Specify Scale marking
   a) 0-1 A     b) 0-5 A    c) Special, Please specify

5) LINE FREQUENCY: Range 45-55 Hz.
   Input Voltage (±15%)
   a) 63.5 V    b) 110 V    c) 240V    d) 415 V
   e) Special, Please specify

6) PT-100 3 WIRE CONNECTION:
   a) 0-50°C  b) 0-100°C  c) 0-200°C  d) 0-300°C
   e) 0-400°C  f) 0-500°C   g) Special, Please specify

7) J TYPE (IRON-CONSTANTAN) THERMOCOUPLE:
   a) 0-200°C  b) 0-400°C  c) 0-600°C
   d) Special, Please specify

8) K TYPE (CHROMEL-ALUMEL) THERMOCOUPLE:
   a) 0-200°C  b) 0-400°C  c) 0-600°C  d) 0-800°C
   e) 0-1000°C  f) 0-1200°C  g) Special, Please specify

SPECIAL REQUIREMENTS:
1) ALARM / TRIP CONTACTS
   a) One High   b) One Low   c) Both High
   d) Both Low   e) One High, One Low   f) Nil

2) 3 & ½ Digit Digital Display

3) 6 Digit Electromechanical Counter as Totaliser

4) 24 V DC Transmitter Power Supply

NOTES:
1) Chart marking suitable to your requirements, if available from our standard Chart library, will be informed by us (Standard 0 - 100% marking)

2) For quantity requirement of non-standard chart markings, consult factory for availability and pricing

START UP SPARES: (Supplied with the Recorder)
1 Set of 5 Disposable Fibre Tip Pens / Channel
30 Standard charts
1 Pair of Panel Mounting Bracket
1 Reading Scale (if relevant / applicable
1 Instruction Manual

Continuous efforts for product development may necessitate changes in these details without notice

Potentiometric Circular Chart Recorder
Recording your Process and Electrical Parameters

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