

Model RPO

Pressure Recorders & Recorder Controllers

Models RPO10, RPO20, RPO30

- 1, 2 & 3 pen pressure recording and controlling at low cost
- Uses proven and reliable Rototherm pressure systems
- Simple installation and maintenance requirement
- Portable stand or pipe mounting available
- Fully mechanical versions available
- Electrical, battery or mechanical chart drive options
- Electrical control options
- Pneumatic control options

Introduction

The RPO range of pressure circular chart recorders uses the well proven and reliable Rototherm stainless pressure system.

These reliable and accurate instruments are suitable for most applications where there is a requirement for low cost pressure recording.

Pens

Fitted to the pen arms are disposable fibre tipped pens which are readily replaced without mess. The first pen of the two and three pen recorders trace in red ink, the second pen in blue, the third in green.

Specifications

ACCURACY

+/-1% FSD

AMBIENT TEMPERATURE

-20°C to +50°C

CHART DRIVE

Synchronous electric, battery or mechanical spring wound. 24 hour or 7 day. (other rotations on request)

CHARTS

Disc 240mm (9.5 inches) diameter. Standard dividing 40, 50, 60, 70 or 80 linear divisions.

INKING SYSTEM

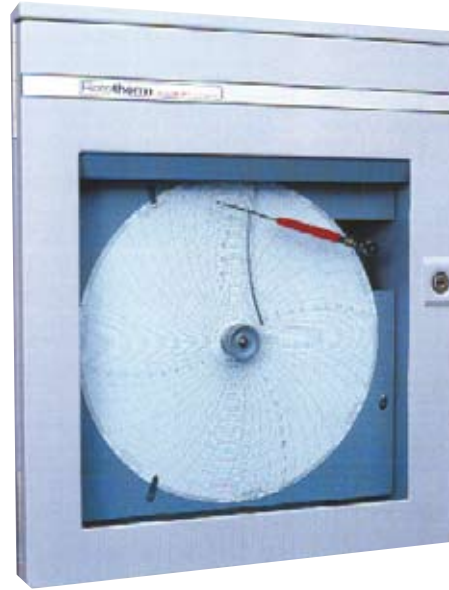
Disposable fibre tipped pens.
 2 pen : red & blue 3 pen : red, blue and green

PRESSURE MEASURING ELEMENT

Stainless steel or Non Ferrous Bourdon tube or pressure capsule

PRESSURE CONNECTION

Standard 3/8" BSP male, with nut and tail pipe suitable for 6.35mm (1/4") outside diameter tube.
 Portable 3/8" BSP male, with nut and tail pipe suitable for 6.35mm (1/4") outside diameter tube or 3/8" inside diameter tube.
 Receiver Type 1/4" BSP female (input 3-15 psi 0.2-1 Bar)



Control Options

Full pneumatic control is available on this range of recorders - for full details please refer to the Pneumatic recorder controller data sheet. Electric Control / Alarm - two pen recorders in this range may be specified with electrical control options.

CASE

Glass filled polyester resin. protection rated to IP55

WINDOW

Acrylic

POWER SUPPLY

200 to 250 volts, 50Hz (60Hz available); 100 to 110 volts, 50Hz (60Hz available);

Instruments without electrical control require no power supply provided that a clockwork chart drive is fitted. Battery operated chart drives require 1.5 volt type "C" cell.

ELECTRICAL ALARM AND CONTROL

Contact rating (when fitted):
 0.1A at 250V AC (non inductive)
 0.01A at 250V DC (non-inductive)
 Relay contact rating: 10A at 250V 50Hz
 Contact adjustment range : 2% to 100%

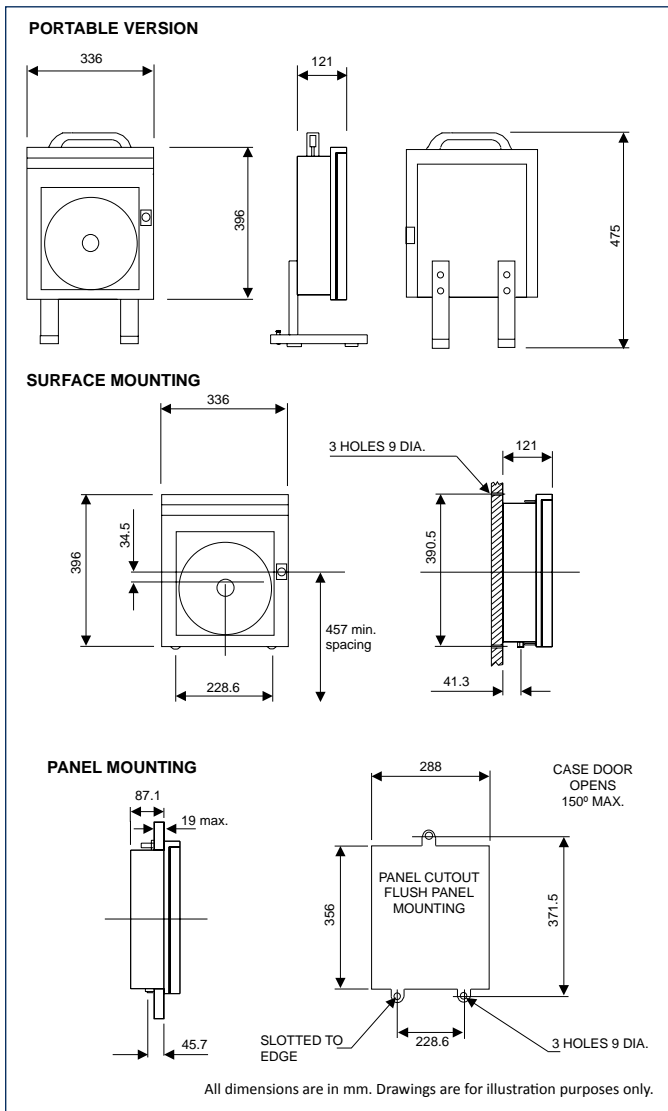
MOUNTING

Suitable for surface or panel mounting. (Pipe mounting and portable options available)

WEIGHT

Single pen : 6.5 kg (14.25lb)
 Two pen : 7.0 kg (15.5lb)
 Three pen : 7.5 kg (16.75lb)
 Portable single pen : 8.6 kg (19 lb)

Dimensions & Fixings



Standard Pressure Ranges

Pressure Range	Sensing Element	Material
0 to 30" Hg vacuum	Single Capsule	Beryllium Copper
-15 to +15 psi		
0 to 15 psi		
0 to 20 psi		
0 to 25 psi		
0 to 30 psi		
0 to 40 psi		
0 to 60 psi		
0 to 80 psi		
3 to 15 psi		
0 to 6 bar		
0 to 10 bar		
0 to 16 bar		
0 to 25 bar		
0 to 40 bar		
0 to 60 bar		
0 to 100 bar	Bourdon Tube	Stainless Steel
0 to 160		
0 to 250		
0 to 300		
0 to 400		
0 to 600		
0 to 1000		
0 to 1200		
0 to 1600		

Other ranges may be available - please contact Rototherm Sales

Other Recorders & Controllers Available include:

- Temperature & Pressure Combined
 - Temperature & Humidity
- Pressure & Differential Pressure
 - Flow
 - Level
- Electric Input Recorders - including programmable recorders
 - Pneumatic Recorder Controllers

World-Wide Reliability & Quality

Rototherm's high quality and performance is guaranteed by an uncompromising approach to quality. British Rototherm's policy has always been to maintain a consistently high level of quality and reliability throughout its product range and service to customers.

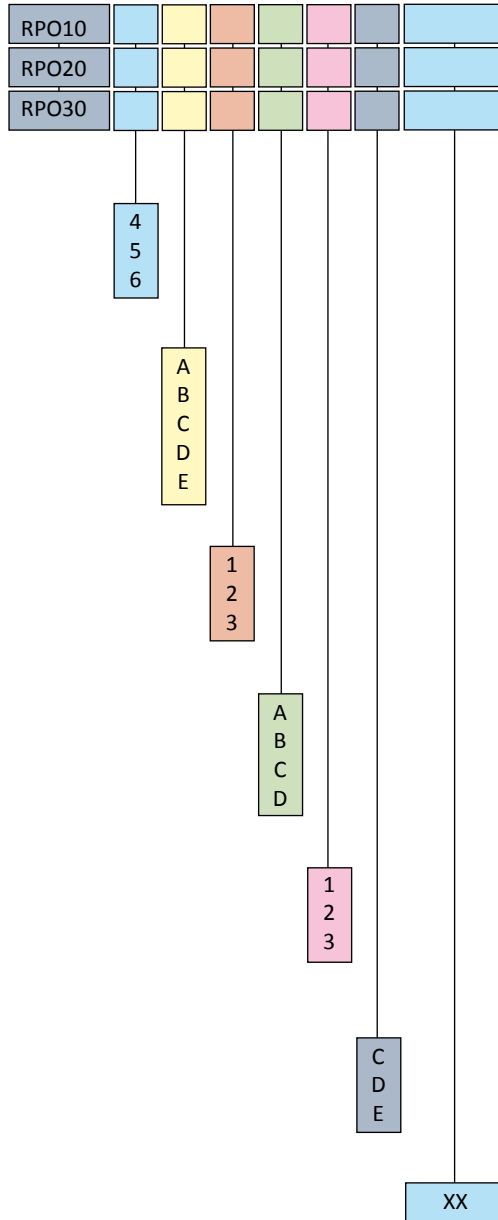
The company has worked energetically towards establishing comprehensive quality controls and has earned a worldwide reputation for product quality.



ISO9001:2000
FM11958

Ordering Information

RPO recorder 1 pen
 RPO recorder 2 pen
 RPO recorder 3 pen



MOUNTING

Wall/Panel
 Portable
 Pipe

CHART DRIVE

Electric 240V 50Hz
 Electric 110V 50Hz
 Electric other*
 Spring Wound
 Battery

CHART ROTATION

24 hour
 7 day
 Other*

CONTROLS / ALARMS

No control
 1st pen High & Low
 2nd pen High & Low
 1st & 2nd pen High & Low

PROCESS CONNECTION

Standard (3/8" BSP)
 1/2" BSP male
 1/2" NPT male
 Other

ELEMENT CONNECTION MATERIAL

Brass/Beryllium Copper/Phosphor Bronze
 Stainless Steel
 Other*

RANGE & UNITS OF MEASUREMENTS

Specify range & units

Notes

- (a) Where Other* is specified please add note to order code stating exact requirements
- (b) When specifying different ranges for 2 or 3 pen recorders, care should be taken to use standard/compatible charts ranges.

Example Order Code



Single pen pressure recorder, wall mounted, electrical 240 volt 50Hz chart drive, 24 hour rotation, standard stainless steel connection, stainless steel element, range 0 to 10 bar.



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