

SERIES: APR130

- UP TO THREE INPUTS
- 100 mm PAPER WIDTH
- CONTINUOUS TRACE CHANNEL(S)
- PEN COLOURS: RED, BLUE, GREEN
- VARIETY OF SELECTABLE CHART SPEEDS
- 2 RELAY OUTPUTS PER CHANNEL (OPTION)
- ALARM INDICATIONS BY THE AID OF DIODES
- WATER & DUST PROOF FRONT PANEL (IP65)
- RETRANSMISSION ma OR VOLTAGE OUTPUT (OPTION)



INTRODUCTION

Indumart APR130 series of Continuous Trace Strip Chart Recorders are DIN size 144 x 144 mm instruments which come as one-pen, two-pen or three-pen analogue input recorders and mark on a 100 mm-wide roll or Z-fold chart paper.

The input(s) may be specified as current (mA), voltage (mV or V), thermocouple (J, K, S) or RTD. The inputs are independent from each other, but are recorded simultaneously. They are factory configured to customer's requirements, but chart speed and alarm setpoints can be adjusted by the operator, as well as, zero and span positions of the pens.

Eight chart speeds are available between 10 and 3600 mm/h that the user may select. Additionally, the recorder may be turned on/off with its main switch without disconnecting the power supply.

These recorders can be equipped with two relays for ON/OFF control or for setting the threshold alarms. The diodes at the edges of the scales indicate the state of the alarms.

Retransmission is an optional feature of APR130 series and can be selected between mA or voltage output.

The front panel of APR130 series is sealed to IP65; suitable for washing with a hose and sealed to dust penetration.

SPECIFICATIONS

Number of Inputs	1 to 3 analogue
Recording Mode	Continuous
Accuracy	0.5%
Pen Colours	(1) Red, (2) Blue, (3) Green
Pen Life	1000 m running
Recording Paper	Roll or Z-fold tape (DIN16230); 100 mm wide and 16 m long
Paper Feed Speed	10, 20, 60, 120, 300, 600, 1200 and 3600 mm/h field adjustable
Input Type	see the table on the next page
Input Sampling	≤1.5 seconds
Additional Error	0.5% due to linearized scale
RTD Line Resistance	10 Ω maximum
C.J Compensation	0...50°C (thermocouple inputs)
Output (retransmission)	0...20 mA/400 Ω; 0...5 V/1mA
Alarm (optional)	2 relays per channel; N.O. or N.C.
Contact Rating	0.5 A@250 VAC (60 W, 125 VA) 0...100% of the scale adjustable
Dead Signal Zone	≤0.5%
Supply Voltage	207...253 VAC, 45...65 Hz 90...130 VAC, 45...65 Hz 18...24...30 VDC
Power Consumption	<6 VA
Front Panel Sealing	IP-65
Operating Temp.	0...+50°C; -20...70°C without pen
Servicing Safety	According to IEC61010-1
Installation	Category II
Pollution	Level 2
Electromagnetic	
Emission	EN6100-6-4
Immunity	EN6100-6-2
Dimensions	144 x 144 x 284 mm (WxHxD)
Panel Cutout	138 x 138 mm

Code	Measuring Range	Input Type
01	0...1 mA	mA
02	0...5 mA	
03	0...20 mA	
04	0...50 mA	
05	0...100 mA	
06	-5...0...+5 mA	
07	-20...0...+20 mA	
08	-50...0...+50 mA	
09	-100...0...+100 mA	
10	4...20 mA	
11	0...5 mV	mV
12	0...10 mV	
13	0...15 mV	
14	0...25 mV	
15	0...40 mV	
16	0...60 mV	
17	0...100 mV	
18	-5...0...+5 mV	
19	-10...0...+10 mV	
20	-20...0...+20 mV	
21	-50...0...+50 mV	
22	0...5 V	V
23	0...10 V	
24	-5...0...+5 V	
25	-10...0...+10 V	
26	0...100°C	Thermocouple “J”
27	0...150°C	
28	0...250°C	
29	0...400°C	
30	0...600°C	
31	0...900°C	
38	0...150°C	Thermocouple “K”
39	0...250°C	
40	0...400°C	
41	0...600°C	
42	0...900°C	
43	0...1300°C	
44	400...900°C	
52	0...1200°C	Thermocouple “S”
53	0...1600°C	
54	400...900°C	
55	800...1400°C	
56	1000...1600°C	
57	1200...1760°C	
69	-30...60°C	Pt-100 1.3850 As standard the recorder is suitable for 4-wire RTD. For 2-wire RTD connection, please mention that in your order.
72	0...60°C	
73	0...100°C	
74	0...150°C	
75	0...250°C	
76	0...400°C	
77	0...600°C	
78	100...200°C	
79	200...400°C	
80	300...600°C	
81	-50...100°C	
99	0...850°C	

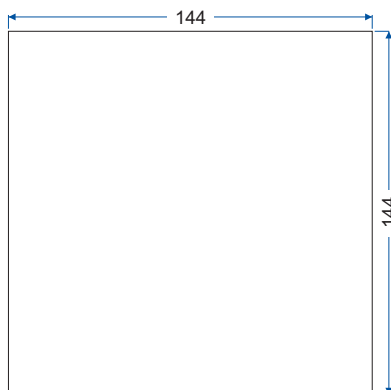
ORDER CODES	
Model APR130 -	
1st PEN Measuring Range (from Table)	xx
2nd PEN Not Required Measuring Range (from Table)	00 xx
3rd PEN Not Required Measuring Range (from Table)	00 xx
ALARMS Not Required Normally-closed Alarm Relays Normally-open Alarm Relays	0 1 2
RETRANSMISSION SIGNAL Not Required 0...20 mA (must not have ordered alarms) 0...5 V (must not have ordered alarms)	0 1 2
POWER SUPPLY 230 VAC 120 VAC 24 VDC	0 3 4
SCALE Linearized for temperature - same as measuring range The same as measuring range 0...100% Blank Scale Custom Made	118 128 138 148 158

Also Available:

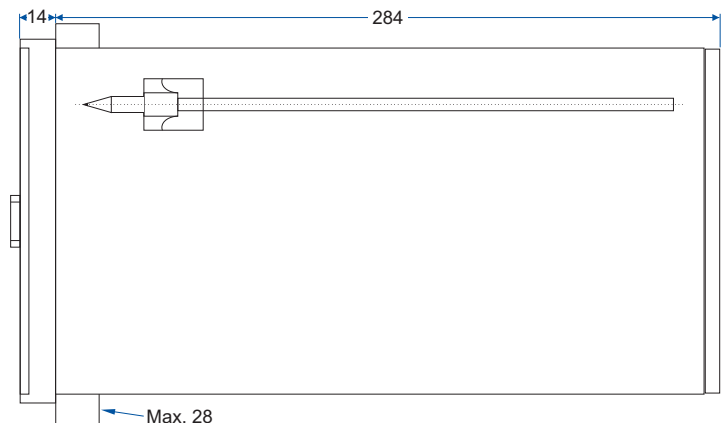
Up to 12-pen Strip Chart Recorders
Up to 3-pen Circular Chart Recorders
Paperless Recorders & Data Acquisition
All Stainless Steel Circular Chart Recorders
Pneumatic, Temperature & Humidity Recorders

DIMENSIONS (mm)

Front View



Side View



INDUMART INC.

1-15 W. Pearce St., Richmond Hill, Ont. L4B 1H6, Canada
Phone: (905) 707-9998 Fax: (905) 707-8484 E-mail: Sales@Indumart.com