



# **SPECIFICATIONS** Model 8100 SmartChart

## **GENERAL**

Overall Accuracy .....	0.1% of span
Linearity Accuracy .....	±0.1°C (TC & RTD inputs)
Resolution .....	12 bit
Sample Rate .....	every 125 ms
Operating Temperature Range ....	0 to 50°C
Storage Temperature .....	-20 to +70°C
General Dimensions .....	6-5/16"H x 9-13/16"W x 11-1/2"D
Panel Cut Out .....	6-1/16"H x 9-9/16"W
Housing .....	Steel, textured enamel finish, portable/panel mount
Weight .....	12.9 lbs
Power Requirements .....	115 or 220 VAC, 50/60 Hz, 8.2 VA 2 channel, 15. VA, 8 channel
External Battery .....	9 to 16 VDC
Communications Port .....	RS232

## **INPUT**

No. of Inputs .....	1, 2, 4, 6, 8
Input Isolation .....	500 VRMS
Standard Inputs .....	4/20 mA (5 Ohms, 0.1 V drop) 0/1 VDC, 0/5 VDC, 1/5 VDC 0/10 VDC, mV, Thermocouple Strain Gage, Potentiometer, RTD
Input Impedance .....	> 15 M-Ohms
Nonstandard Inputs .....	(see options)
Output Power .....	+24 VDC @ 160 mA to power 8 external transmitters

## **DISPLAY**

Type of Display .....	Supertwist dot matrix LCD (100 x 64 dots)
Display area .....	3.5" x 2.25"
Vertical Resolution .....	Graph 64 dots (1.56% of span)
Horizontal Resolution .....	Graph 1 dot/recording interval

## **CONFIGURATION**

User Password .....	4 digits (factory set, active or inactive via switch setting)
Date .....	MM/DD/YY
Time (military) .....	Hour:Minute:Second
Recording Interval .....	0.25 sec. min.; 1 hr. max.
Recording Method .....	Average, Peak, Valley, All
ID Code .....	6 characters (alpha/numeric)
Input type (Standard) .....	TC types J, K, E, T, R, S, C, N, mV, mA, DCV, DCI
Input Display Range .....	4 digit (-9999 to +9999)
Calibration .....	apply min & max input signal to recorder for auto-calibration
Engineering Unit .....	3 characters max (GPM, PSI...)

## **MEMORY**

RAM .....	32,000 readings per channel (64K)
Recording Time .....	32,000 x recording interval 9.0 hrs. for 1 sec. recording interval 22.2 days for 1 min. recording int. 111 days for 5 min recording int. 3.6 yrs. for 1 hour recording int.
Memory Card .....	512K bytes

## **BATTERY**

RAM	Type .....	Lithium (AA size)
	Working Voltage .....	3.5 VDC
	Capacity .....	1800 mAH
	Battery Life .....	3 yrs. 2 channel
Main	Type .....	Sealed lead acid, rechargeable
	Working Voltage .....	12 VDC @ 4 AH
	Battery Life .....	14 hrs fully charged (2 channel) 7.5 hrs fully charged (8 channel)
Memory Card	Type .....	Lithium
	Working Voltage .....	3.5 VDC
	Capacity .....	165 mAH
	Battery Life .....	4 yrs. (128 Kbyte card) (Replaceable w/out loss of data)

## **OPTIONS**

-2, -4, -6, -8	2 through 8 Channels
-C	Portable
-PM	Panel Mount
-T	mA, MV, TC, VDC, ADC
-R	mA, Resistance, RTD, SG, Pot
-14I	AC Current Input (0 to 5 A)
-14E	AC Voltage Input (240 VAC)
-14EI	AC Voltage Input (600 VAC)
-16	Frequency Input 50K Hz, max
-18	Pneumatic Input (3 to 15 PSI)
-65P	pH Input (0 to 14 pH)
-65R	ORP (400 to 1000 mV)
-RA	19" Rack Mount Adapter
-CR232	Memory Card Reader
-MC512	Memory Card, 512 Kbytes
-E30	Relay Output, SPDT, 3 Amps
-E71	220 VAC Power
-MD301	AC Current Probe, 500 Amps AC
-CS	Soft-sided carrying case
-Model 720	Submersible Pressure Transducer

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