



SmartChart: Universal Input Paperless Strip Chart Recorder

Smart-Chart is paperless strip chart recorder with 2/4 Universal input & LCD touch screen colour display. It is used in processes that need historical data, which makes the documentation of measured variables essential. It can record a variety of process parameters such as temperature, humidity, pressure or flow from transmitters. Its USB Host Port allows data retrieval in the form of image format as well as system upgrade.

Key Features:

- SmartChart available in 4.3", 7.1" & 10.1" display size
- 64K colours, bright and wide viewing angle TFT display
- Resistive touchscreen for easy man machine interaction(7.1" & 10.1")
- Strip chart and numerical display with alarm status
- Universal 1/2/4 inputs : RTD, thermocouple and analog input
- True 16 bit ADC for high accuracy
- User selectable variable chart duration from 1 hour to 7 day
- 4 MB data storage capacity suitable for 15 days record
- Inbuilt 24VDC sensor excitation output
- USB host port to download numerical and graphical data

Applications:

- Water/Waste water treatment
- Food processing
- Blood Banks & Pharmaceutical industry

Technical Specifications:

Specifications	SmartChart43UTL	SmartChart71UTL	SmartChart101UTL
Description	2/4 ch. Universal Input Paperless Strip Chart Recorder		
Display	4.3 inch, 64K colours, Bright & wide viewing angle TFT screen with LED backlight	7.1 Inch, 64K Colors, Bright & wide viewing angle TFT screen with LED backlight	10.1 Inch, 64K Colors, Bright & wide viewing angle TFT screen with LED backlight
Display Resolution	480 X 272 pixel	800 x 480 Pixel	1024 x 600 Pixel
No. Of Input	2 Nos.	4 Nos.	4 Nos.
Operator Interface	Tactile Keys	Touch screen	Touch screen
Features	<ul style="list-style-type: none"> Strip Chart Type Graphical Recording 4 MB Data Storage Capacity(60,000 samples/channel) # optional expandable to 8 MB Inbuilt 24VDC Sensor Excitation Output Optional GSM -GPRS / Wi-Fi Compatibility USB Host Port to download Chart Image & Firmware upgrade 		
Display Trends	a. Strip Chart of individual channel or all channels. b. Numerical display with alarm status		
Input Types	a. RTD : PT100 b. Thermocouple : J, K, R, S, T c. Volt Inputs(DC) : 0-250 mV, 0-500 mV, 0-1V, 0-2V d. Current Inputs(DC) : 0-20 mA ,4 - 20 mA		
Sample Rate	4 ch. Per Second.		
Resolution	TC : 0.1 °C RTD : 0.1 °C Volt Input : 1, 0.1, 0.01, 0.001, 0.0001 Current Input : 0.001 mA		
Accuracy	For TC inputs : ± 5 °C For RTD input : ± 0.5 °C Volt Input : 0.1% Current Input : 0.1%		
Real Time Clock	Internal Real Time Clock with battery backup with accuracy of +/- 1 min per month		
Chart Interval	1 Hour / 3 Hour / 6 Hour / 12 Hour / 1 day / 7 Day (User settable)		
Logging Modes	Continuous		
Data Logging	Parameter value of each channel is stored with respect to real time and the alarm status of the corresponding channel in the internal flash memory. Data is retained even in the absence of mains power.		
Data Storage	4 MB internal data storage capacity (suitable for storing 15 Days graphs of all the channels)		
Sensor Excitation	24V DC, 250 mA		
Communication Interface	RS-485 Port, Transmission Protocol : Proprietary (Optional MODBUS RTU) RS-232 Serial Port for PC communication		
USB Interface	USB Host port to download .bmp file in graphical format & system upgrade		
Reports	Tabular reports of process value along with alarm status for each channel can be generated / printed along with channel statistics like Minimum Value, Maximum Value & Average value of each channel over selected period.		
Supply Voltage	230V AC 50 Hz		
Temperature	Operating : 0°C to 50°C Storage : 0°C to 50°C		
Humidity(Non-Condensing)	Up to 95% RH		
Housing & Type of Mounting	Panel Mounting Metal Enclosure with ABS front		

Optional Features:

SMS Alerts	SMS alerts can be generated to 3 predefined mobile numbers on any alarm event
Data Transfer via email	Data Transfer after regular user settable interval to 3 email addresses in .csv format or report format
Data Transfer to Server	Data Transfer after regular user settable interval to the client server in FTP format
Wireless connectivity	2.4GHz licence free communication link from various sensors to the logger or from Logger to PC for data downloading

PC Software:

Windows based PC software to:

- Download data from the data logger
- View Runtime parameters values and graphical trends
- Download the logged data from the data logger
- Generate & save reports
- Optional 21 CFR compliant software features



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