

## GENERAL

**ALIAPANEL** ARC800 Series Paperless Recorder features the most advanced technology. It can be applied across a broad scope of industrial applications. ARC800 is the product which with multi-channels, complete functions, easy operation, high accuracy, low power but high performance. And the series overcome the old-fashioned paperless recorder, which has less channels, multiple installation and space-consuming problem.

## FEATURES

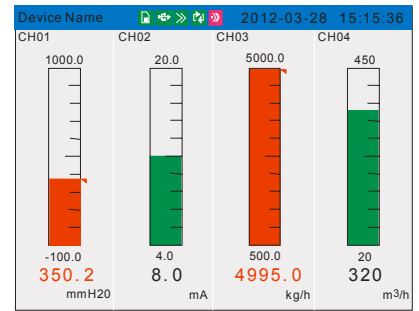
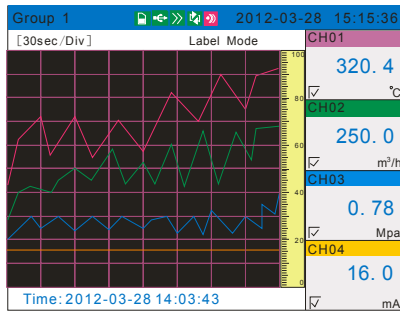
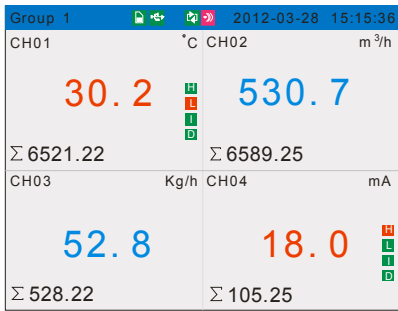
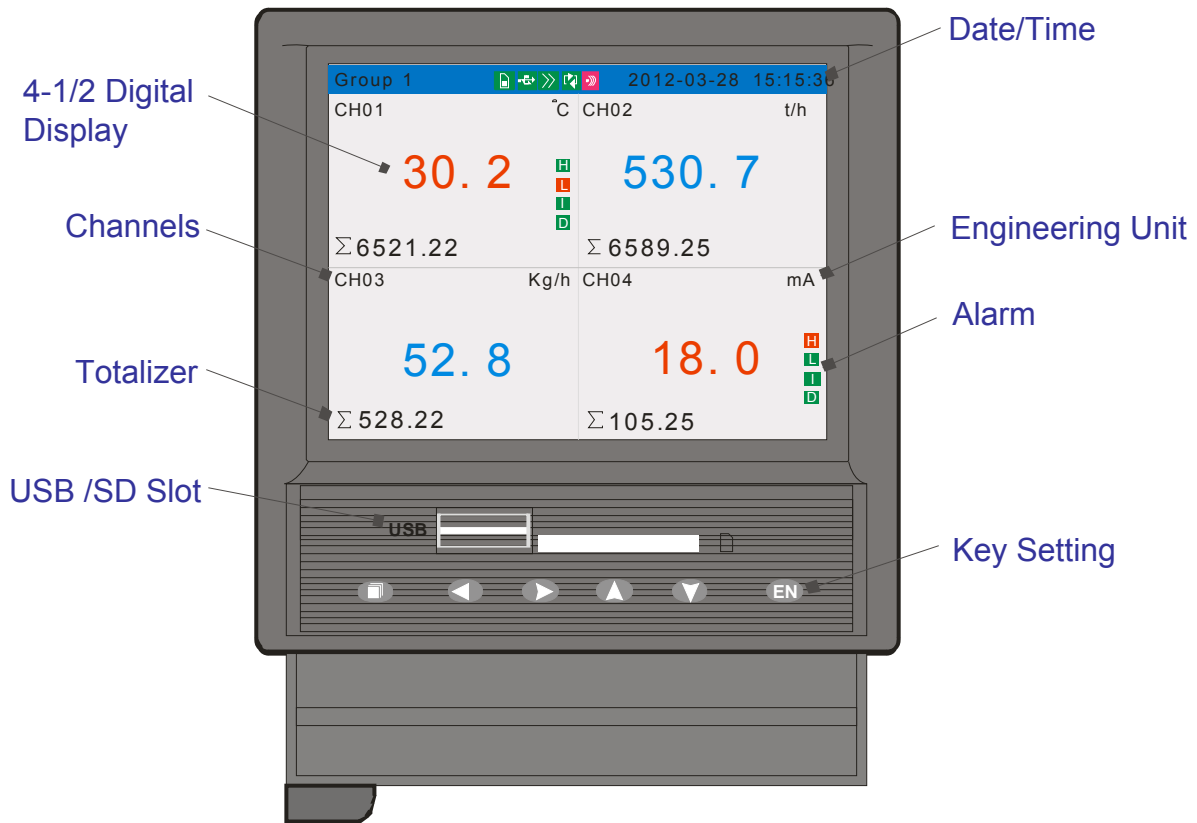
- DIN Size (96mm\*96mm), 320\*240 Pixels, TFT truecolor (LCD)
- 4MB memory installed inside, applied to long terms data record
- Common input signal: mA, Include VDC, T/C, RTD, Hz etc.
- High Accuracy +/-0.15% of Reading
- 2 relay outputs, 1 analog output (4-20mA), 1 (24VDC) power supply output
- 4 channels Max.input
- 24VDC Aux. Power supply available for 2 wires system
- Display / Record Single-point, Multi-point, Trend, Totalizer, Bargraph
- The recorded data could be stored in USB memory & SD memory card and transferred to computer for soft analysis



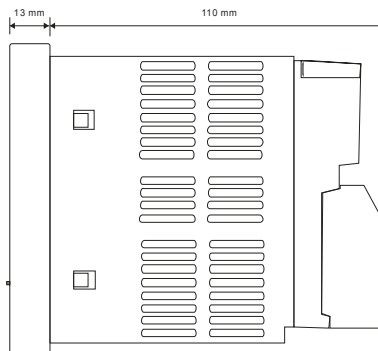
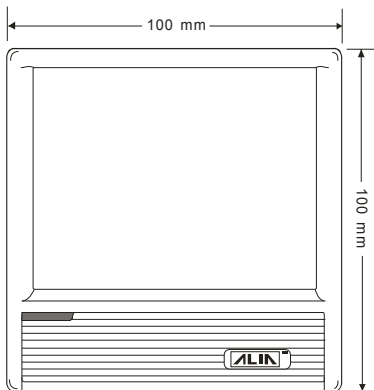
## STANDARD SPECIFICATION

- |                        |  |                        |   |
|------------------------|--|------------------------|---|
| ● Number of Inputs     | : 1- 4 Channels  | ● Display              | : 3.5" color-screen LCD                     |
| ● Input                | : T/C (K, S, B, E, J, N, T, R, N, etc.)                            | Trend & Bargraph       | : Vertical / Horizontal                     |
|                        | : RTD, CU50, CU53, BA1, BA2  | Digital                | : 4-1/2 digits programmable                 |
|                        | : DCA (4-20 mA, 0-10 mA, 0-20 mA)                                  | Engineer Unit          | : 66 different engineering units            |
|                        | : DCV ( 0-5V, 1-5V , 20mV, 100mV)                                  | Parameter Protection   | : Password entry (6 Digits)                 |
|                        | : Frequency (1Hz ~ 5KHz)   | ● Logging Rate         | : 1 Second ~ 1800 Seconds Per Data          |
|                        | Resistance (0-400 Ω)   | ● Recording Capability | : 72 Hours (4 Points, 1 Data/Second)        |
| ● Accuracy             | : +/-0.15% of Span   |                        | : 118 Years (1 Point, 1 Data/Hour)          |
| ● Response Time        | : 50 ms  | ● PC Software          | : Windows 2000/XP/Vista/Win7                |
| ● Alarm Types          | : High & Low alarm, Incr. & Decr. alarm                            | Display                | : Trend, Digital, Circular, Alarm, Bargraph |
| ● Output               | : 4-20 mA, Load 750 Ω *1 point                                     | Totalizer              |   |
|                        | : Relay, 3A/250V * 2 points  | Convert Function       | : Saved as excel files                      |
|                        | : 24VDC, 60 mA *1 point  | ● Protection Class     | : NEMA 3 / IP 54                            |
| ● Digit Input          | : 2 Points Maximum   | ● Weight               | : 0.5 Kg Maximum                            |
| ● Storage Memory       | : 4 MB (on board)  | ● Dimensions           | : 96mm (W) * 96 mm (H) *110 mm (D)          |
| ● Recycling Mode       | : Newest Data overwrites to oldest data                            | ● Ambient Temperature  | : -10 ~ +60 °C                              |
| ● Recording Data Shift | : USB memory (8GB) / SD Card (8GB)                                 | ● Ambient Humidity     | : 10% ~ 85%RH (5 ~ 40 °C)                   |
| ● Display Update Rate  | : 1 Second   | ● Power Supply         | : 85-260VAC, 50/60Hz                        |
| ● Keypad               | : 6 Keys (Page, Left, Right, Up, Down, Enter)                      | 24VDC                  |   |
|                        | for programming and display control                                | ● Vibration Test       | : 10~60Hz ,10m/S <sup>2</sup> for 3 hours   |
| ● Parameter Storage    | : Operation parameters are stored by EEPROM for more than 10 years | ● Power Consumption    | : ≤10 W                                     |
|                        |  | ● Communication        | : RS232 / RS485 (MODBUS Protocol)           |

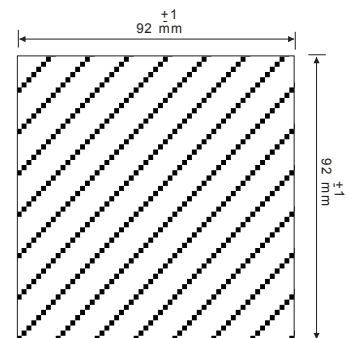
➤ Functions



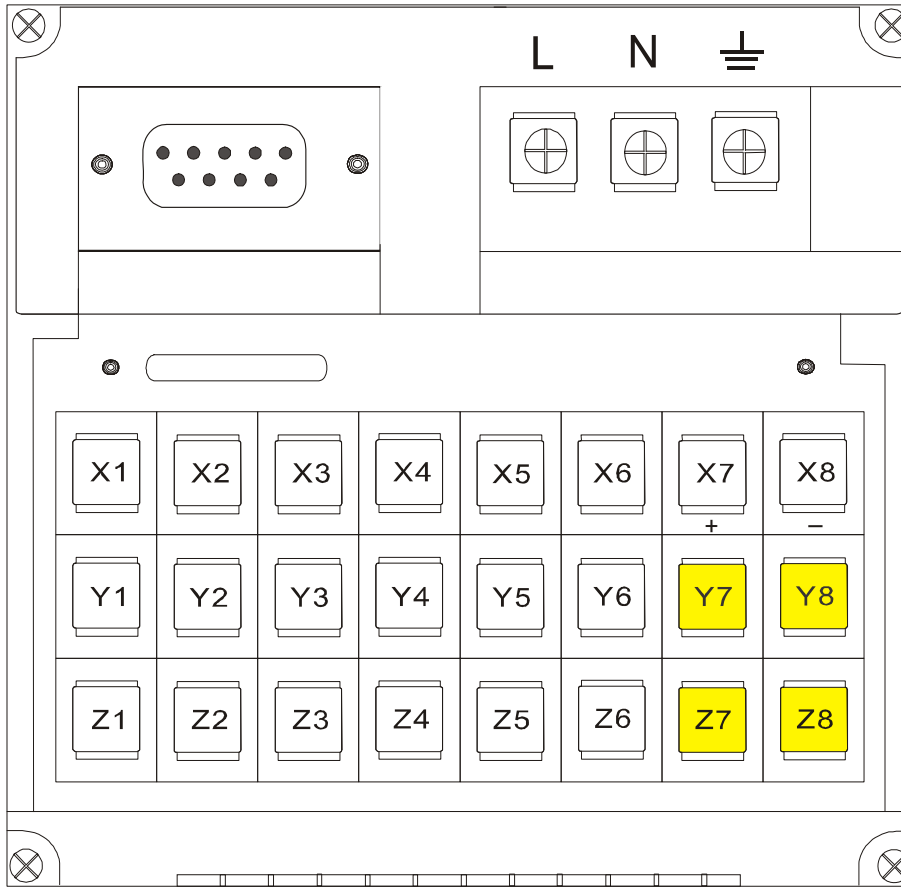
➤ DIMENSIONS



Panel Cutout



➤ WIRING DIAGRAM



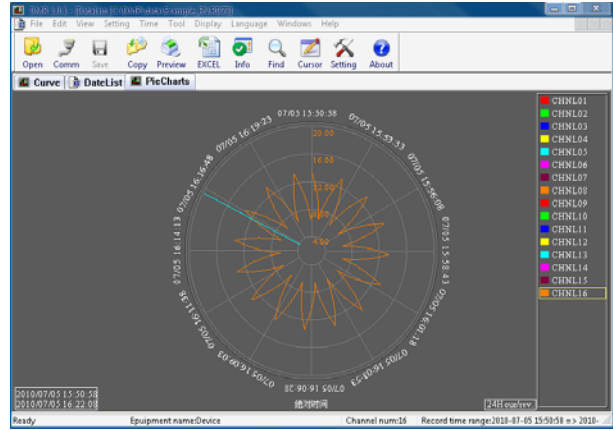
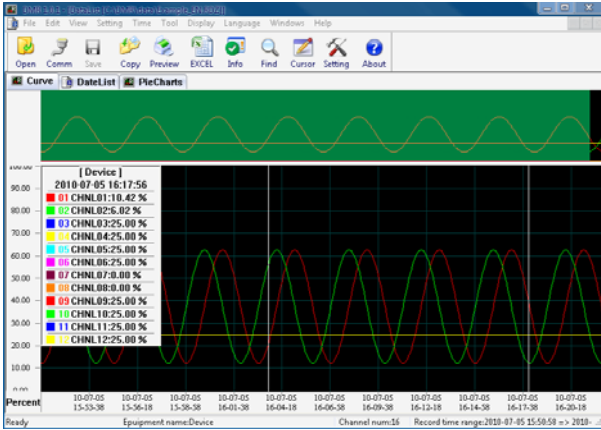
Input		Terminals	
		Input	
		Channel 1-4	X1 / Y1 / Z1 .... X4 / Y4 / Z4
		Frequency	Y5 / Z5
		Output	
		Relay Channel 1-2	Y7 / Y8 , Z7 / Z8
		4-20 mA	X5 / X6
	24VDC	X7 / X8	

Output		

**Standard Accessory**

- \* Advanced software Data Analysis at your PC and Remote Viewing
- \* 8GB USB Memory Disk (Advanced Software inside)
- \* 8GB SD Memory Disk (Advanced Software inside)

**Advanced Software**



**MODEL SELECTION GUIDE**

ARC800 Series						
Example: ARC800-U4-A-R2-C-DC, Universal Input *4, 4~20mA output *1, Relay Output *2, RS485 (Modbus), 24VDC Power.						
ARC800-	XX-	X-	XX-	X-	XX	Description
Signal Input	U1-					1 Channel Input
	U2-					2 Channel Inputs
	U3-					3 Channel Inputs
	U4-					4 Channel Inputs
Output	N-					None
	A-					4~20mA Output
Alarm Output		NN-				None
		R1-				Relay Alarm Output (NO), 1 Channel
		R2-				Relay Alarm Output (NO), 2 Channels
Communication			N-			RS232
				C-		RS485 (Modbus)
Power Supply					AC	85-260VAC, 50/60Hz
					DC	24VDC

Note: Only 1 channel can use frequency input. When choose 1 point from 1-4 channels as the frequency input, the terminals of frequency input must connect to Y5/Z5.