

## GENERAL

**ALIAPANEL** ARC800 Series Paperless Recorder uses the most advanced technology and can apply to various industry applications. ARC800 is the product which with multi-channels, complete functions, easy operation, high accuracy, low power but high performance. And the series overcomes the old-fashioned paperless recorder, which has less channels, multiple installation and space-consuming problem.

## FEATURES

- Standard Volume(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 points of Relay, 1 point of 4-20mA output and 1 point of 24VDC output
- Maximum can receive 4 channels input signal
- Can select 24VDC Aux. Power supply for 2 wires system
- It can display/record Single-point, Multi-point, Trend, Totalizer, Bargraph
- The recorded data could be stored in USB memory & SD memory card and take out to computer make soft analysis



## SPECIFICATION

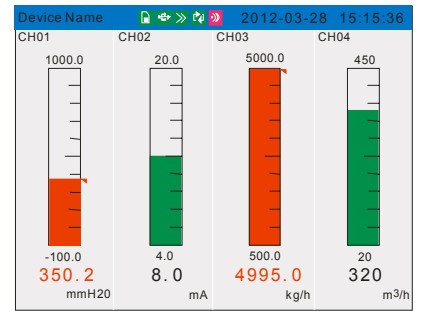
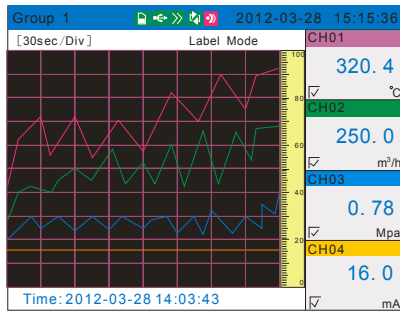
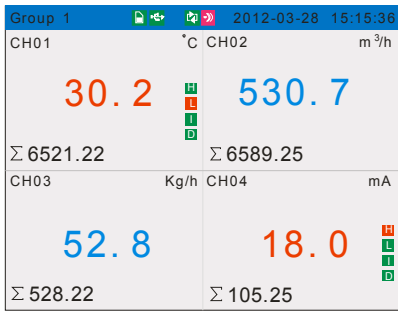
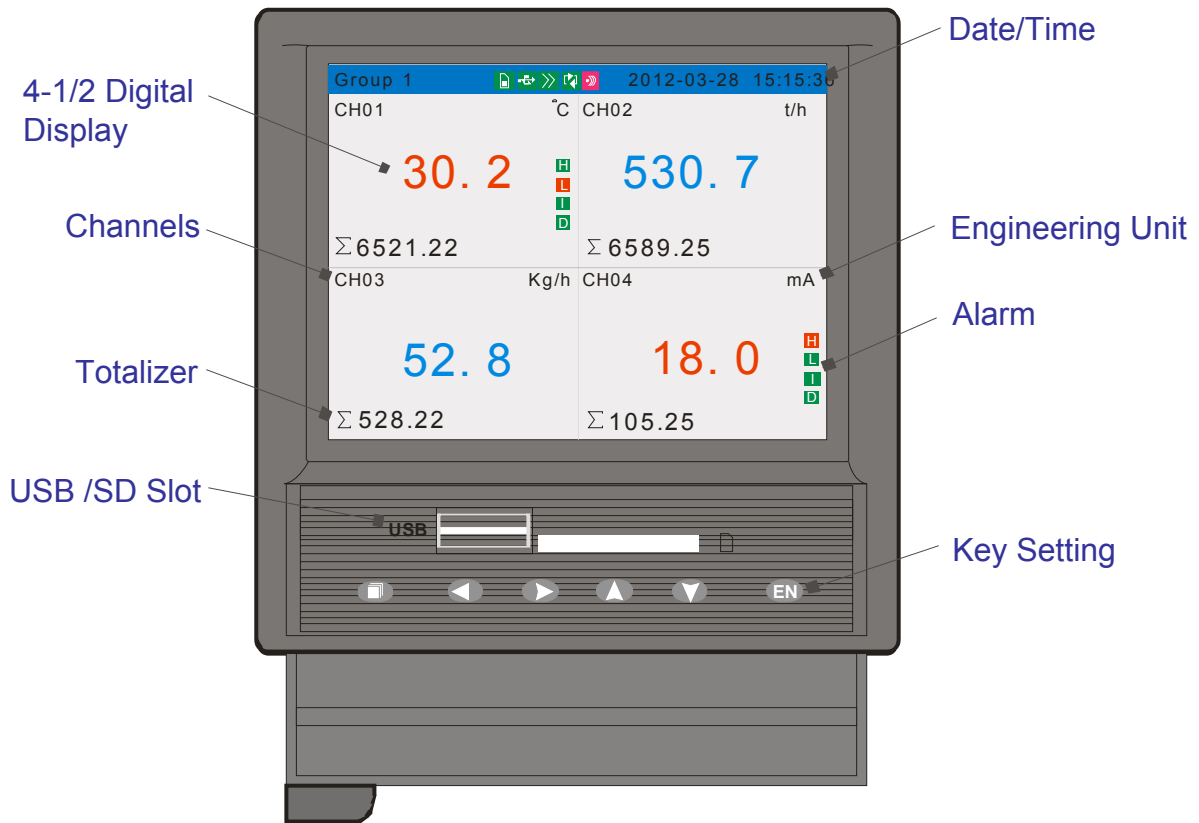
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|------------------------|--|------------------------|---|
| ● Number of Inputs     | : 1- 4 Channels  | ● Display              | : 3.5" color-screen LCD                     |
| ● Inputs               | : T/C (K, S, B, E, J, N, T, R, N, etc.)                            | Trend & Bargraph       | : Vertical / Horizontal / Landscape         |
|                        | : RTD, CU50, CU53, BA1, BA2  | Digital                | : 4-1/2 digits programmable                 |
|                        | : DCA(4-20 mA, 0-10 mA, 0-20 mA)                                   | Engineer Unit          | : 66 Engineering units                      |
|                        | : DCV( 0-5V, 1-5V , 20mV, 100mV)                                   | Parameter Protect      | : 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       | : Can be saved as excel files               |
|                        | : 24VDC, 60 mA *1 point  | ● Enclosure            | : 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 over-writes to oldest data                           | ● Ambient Temperature  | : -10 ~ +60 °C                              |
| ● Recording Data Shift | : USB memory(8GB) / SD Card(4GB)                                   | ● Ambient Humidity     | : 10% ~ 85%RH (5 ~ 40 °C )                  |
| ● Display Update Rate  | : 1 Second   | ● Power Supply         | : 85-260VAC, 50/60Hz                        |
| ● Keyboard             | : 6 Keys (Page, Left, Right, Up, Down, Enter)                      | 24VDC                  |   |
|                        | for programming and display control                                | ● Vibration Test       | : 10~60Hz ,10m/S2 for 3 hours               |
| ● Parameter Storage    | : Operation Parameters are stored by EEPROM for more then 10 years | ● Power Consumption    | : ≤10 W                                     |
|                        |  | ● Communication        | : RS232 / RS485 (MODBUS Protocol)           |

## ALIA GROUP INC.

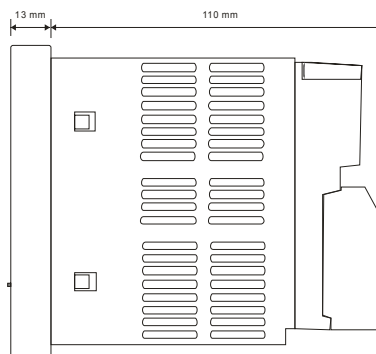
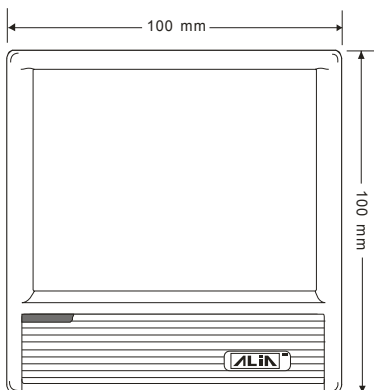
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ARC800V1.1.7en

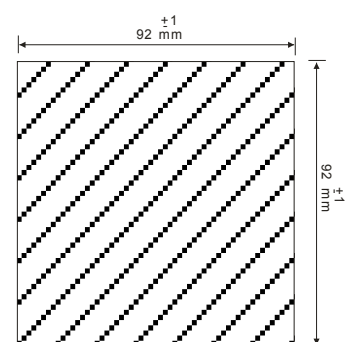
➤ Functions



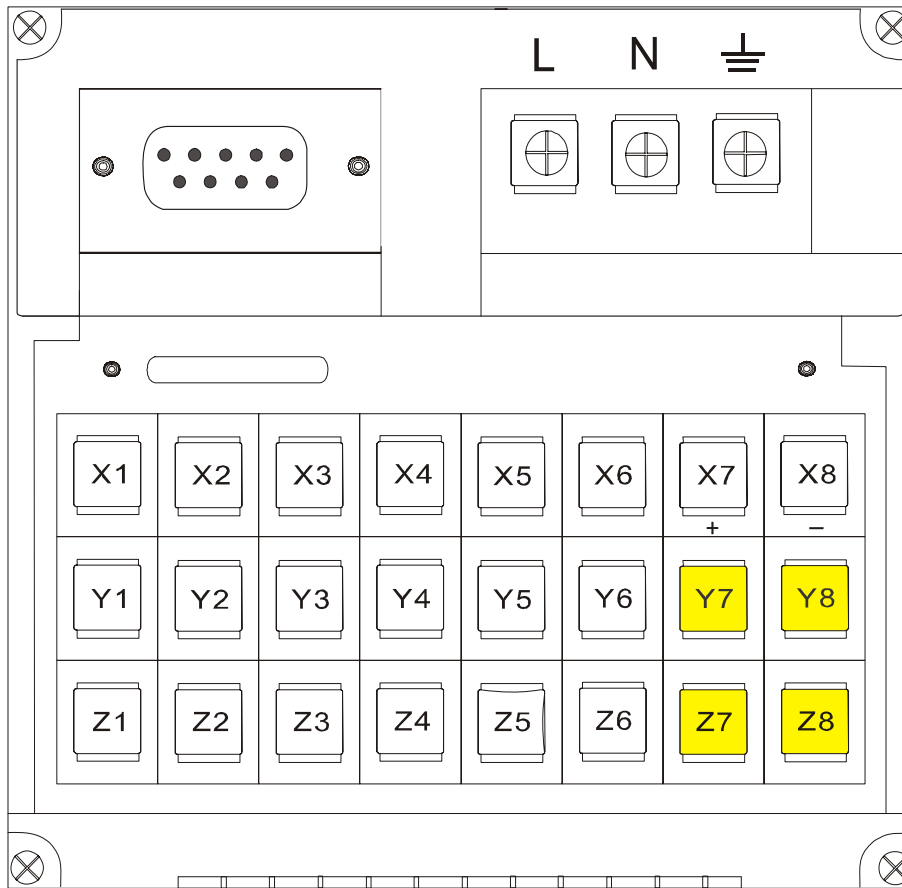
➤ DIMENSIONS



Panel Cutout



➤ Wiring



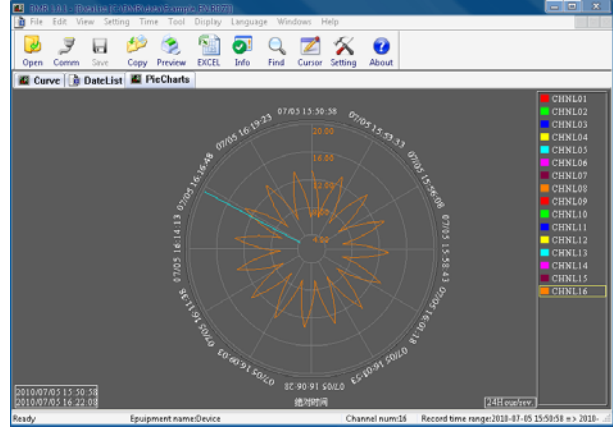
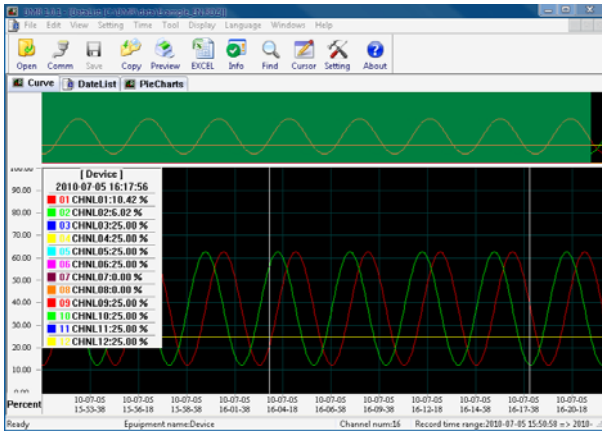
Input		Terminals	
<p>1-4, RTD X ⊕ ○ b</p> <p>1-4, mA ○ ⊕</p> <p>1-4 VDC/mV Y ⊕ ○ B</p> <p>1-4, T/C Z ⊕ ○ A</p> <p>○ ⊖</p>	Channel 1-4	X1 / Y1 / Z1 .... X4 / Y4 / Z4	
	Frequency	Y5 / Z5	
	Relay Channel 1-2	Y7 / Z7 , Y8 / Z8	
	4-20 mA	X5 / X6	
	24VDC	X7 / X8	

Output		
<p>Y ⊕ ○</p> <p>Z ⊕ ○</p> <p>Relay (NO)</p>	<p>X5 ⊕ ○ 4-20mA</p> <p>X6 ⊕ ○</p>	<p>X7 ⊕ ○ 24VDC 60mA</p> <p>X8 ⊕ ○</p>

**Standard Accessory**

- \* Advanced software Data Analysis at your PC and Remote Viewing
- \* 8GB USB Memory Disk (Advanced Software inside)
- \* 4GB 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					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.