ADVANCED DIGITAL RECORDER

# SDR100 SERIES

SDR102 / SDR104 / SDR106 / SDR112

## Specification

### Input section

- Measurement points : 2CH, 4CH, 6CH, 12CH
- Measurement interval : 500ms
- Input Types
  - DCV : -5~10V, -10~20V, -1~2V, 0~2V, 0~5V, 1~5V, 0~10V, 0~20V, -10~20mV , -50~100mV, 0~20mV, 0~100mV
  - DCV Unit : ˚C, ˚F, BLANK, %, Pa, kPa, %RH, mV, V, Ω , mmHg, kgF
  - TC : K, J, E, T, R, B, S, L, N, U, W, Platinel Ⅱ, C
  - RTD : PT100, JPT100
  - TC/RTD Unit : ˚C, ˚F

### Alarm Function

- Number of Alarm Setting : Setting of Maximum 4 alarms per a channel
- Alarm Type : High/Low of PV, In/Beyond of PV Range
  Above of PV Rise Rate, Below of PV Rise Rate
  Above/Below Deviation among Channels, Sensor Open

### Construction

- Dimensions : 144(W) X 144(H) X 188(D) mm
- Weights : SDR102-□ □ □ approximately : 1,1Kg
  SDR104-□ □ □ approximately : 1,1Kg
  SDR106-□ □ □ approximately : 1,2Kg
  SDR112-□ □ □ approximately : 1,3Kg
- Case Material : PC + ABS

### Communication (Option)

- Communication Specification : Basic RS232C/485 selection, When selects ethernet RS232C/485 unserviceability
- Communication Speed : Maximum 115,200bps
- Protocol : PC Link with Checksum, MODBUS RTU, MODBUS ASCII

### Display

- Display : 5.7" TFT color LCD VGA(640(W) X 480(H))
- Display Type : Trend, Bar, Digital, Event, History of Error, Information (Alarm, Message, Memory Capacity)
- Language : Korean, English, Japanese, Chinese

### Data Storage Function

- Internal Memory : Flash Memory(64M)/Non-Volatile
- Exterior Memory : SD Card Memory (Provision of SDHC Card)
- Save Method : Save at the Interior/Exterior(SD Card) Memory
- Data Type : Recorded Data & Message
- Data Format : Binary Format

### Remote Input(Option)

- Number of Remote Contact-Point : 2points (Contact-Point Volume: Maximum 12VDC, 10mA)
- Function of Remote Contact-Point : Setting & Recording the Errors caused from DI, Set the Cycle, Lag Time until DI Detection

### Alarm Output (Option)

- Contact-Point : Relay A Contact-Point
- Quantity : 6 point, 12 point
- Contact-Point Volume : Normal Open (Max. 30VDC 1A/250VAC 1A)

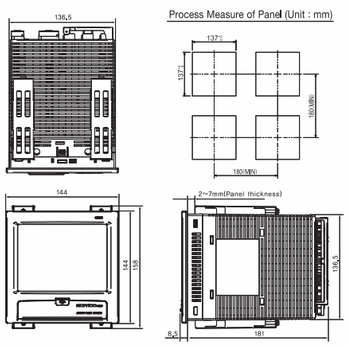
### Power Source

- Rated Voltage : 100 ~ 240V AC
- Rated Frequency : 50/60 Hz
- Consumed Electric Power : 15VA MAX

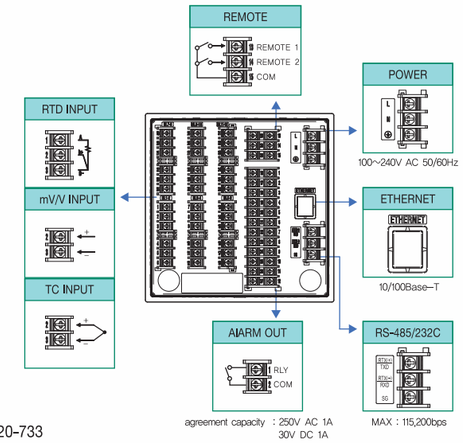
## Model & Order Code

| SDR | 1 | □ | □ | – | □ | □ | □ | / | □ | Contents |
|---|---|---|---|---|---|---|---|---|---|---|
| Number of Controlled Channels | | □ | | | | | | | | 02 : 2 CHANNEL, O4 : 4 CHANNEL, 06 : 6 CHANNEL, 12 : 12 CHANNEL |
| Option – Communication | | | | | □ | | | | | N : ST'D(RS232C/485 selection), CE : Ethernet(TCP/IP) |
| Option – Alarm Output | | | | | | □ | | | | N : Not Select, A1 : 6Points(A contact), A2 : 12Points(A contact) |
| Option – Remote Input | | | | | | | □ | | | N : Not Select, R1 : 2Points |
| Option – Others | | | | | | | | | □ | M1 : Computation Function, P1 : Portable Type |

## External Dimension & Panel Cutouts




## Terminal Assignment





SAMWON TECH (Co) Samwon Tech
Buchon Techno-Park 202-703,#192 Yakdae-dong, Wonm-gu, Buchon-si Kyunggi, Korea, 420-733
TEL : +82-32-326-9120 FAX : +82-32-326-9119
E-mail : webmaster@samwontech.com Homepage : http://www.samwontech.com


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## Feature




### Brightness and Clarity

- Application of 640 X 480 TFT-LCD
- Implement of 256k Color

### Touch Screen Display

- Touch Screen Interface
- Allowable Screen Capturing
- Canned Message on recording graph

### Can Research Recorded Data Fast

- Mount the FSA. (Fast Searching Algorithm)
- Identifiable Previous Data During Recording
- About 1 sec. in researching 1Gbyte data
- Currently the graph which is in the process of storing rightly search is possible

### Sufficient Save Capacity

- Internal Memory : 64Mbyte(Non-Volatile)
- Exterior Memory : 2Gbyte(SD) builtin

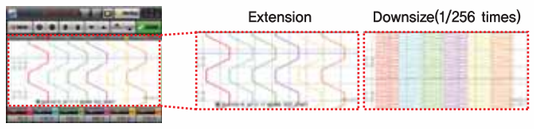
### Convenient Message Function

- Input & Appear the Message on a Graph
- Auto Input of Important Event Message
- Everyone's Allowable Message Input with SC(short cut) Easily
- Identifiable Message on the Saved Graph

## Main Functions

### Expansion/Reduction Function

- Allowable Expansion/Reduction of the Recorded Screen by Time Base



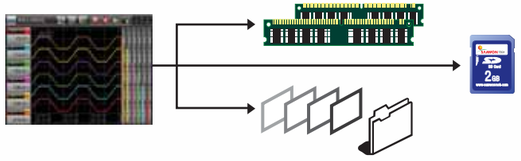

### History Save Function

- Allowable Save of Maximum 100 errors & alarm histories
- Allowable Save of Maximum 100 events histories



### Management of Various Data

- Allowable Data Save in One File Continually
- Allowable Data Save in Interior/Exterior(SD) Memory Simultaneously



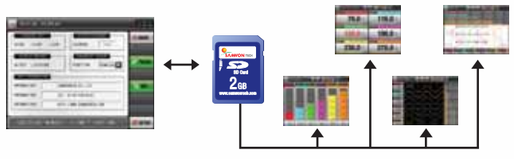
### Scroll Function

- Quickly Identifiable Data with Scroll



### Backup of Parameter

- Allowable Data Manage & Parameter Setting with SD Memory Card



### Free Application Program

- Operational Programs supports serial, ethernet
- Allowable Change into EXCEL&TEXT Files



[Individual monitoring screens]



[Integrated monitoring screen]

## User Screen

- Selectable Set-Up Screen




- Electric Album




## Various Screens

- Easy Structure for User
- Support of the Trend(Across/Vertical) Screen, Digital Screen, Bar Screen
- Allowable the Change the Background Colors on Trend Screen

Trend(Horizontal) Screen



Trend(Vertical) Screen



Digital Screen




Bar Screen



## Example of Product Use

- Clear Record Input & Easy Analysis of Data on Various Displays
- Easy Analysis of Data on PC Programs

