SAMWON
Promising the Best

ADVANCED DIGITAL RECORDER

SDR100F SERIES

SDR102F I SDR104F I SDR106F I SDR112F

ADVANCED DIGITAL RECORDER

SDR102F I SDR104F I SDR106F I SDR112F

Brightness and Clarity

· 640X480 TFT–LCD
· Implement 256K Color

Abundant Storage Space

· Internal Memory : 4GByte (Permanent)
  (Can store for about 6 years based on 1 sec/ 12 channels)
· External memory : 4GByte (SD card) Basic provision

Fast Record Data Search

· Mount the FSA. (Fast Searching Algorithm)
· Available for identify previous saved data
  during recording
· Within about 1 sec in searching 1GByte data
· Available for search of currently saving graph

Touch Screen Display

· Easy and convenient operation
  by touch screen

## Convenient Message Function

· Automatically enter messages for
  important events or actions
· Easy Short Cut message function
· Message Check in saved Graphs

Automatic Data Recovery Function

· Supports automatic recovery of missing
  data when the card is removed and
  re–inserted while saving the SD card
  (Internal memory / SD card
  simultaneous storage)

Exploring data

· Available for movement on screen by dragging and data can be analyzed by enlarging
  or reducing the data

Zoom in (X0.40)   Zoom out (X8.96)
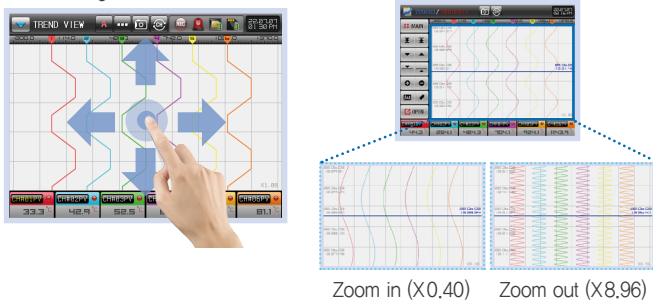
User notes

· Available for note write and insert during data recording or in the recorded
  data screen

Note insert screen   Note write screen

History Save Function

· Max. each 100 Errors, Alarms and Events histories
· Can be saves as TEXT, CSV or PDF

Data Management

· Available for sustainable storage with one file
· Support for simultaneous storage, transmission and deletion of Internal/External(SC) memory
· Available for parameter back up via external (SD) memory

Internal web server

· Available for display and sub–channel firmware updates via self–contained
  web server
· Accessible through various devices such as PC, smartphone, tablet

Firmware update

Communication and operation programs supported free of charge

· Support basic communication (RS232C/485, Ethernet) and operating program

Individual monitoring screens   Integrated monitoring screen

FDA 21 CFR PART 11 COMPLIANCE

FDA ✓ 21 CFR PART 11 **COMPLIANCE**

Access Control
· User registration and management
· User authorization
· User operation control

Electronic Signature
· Trend data electronic signature management
· Control access to electronic signature data

Electronic Record
· System history management and user operation history management
· Long-term data recording based on large file system

Audit Trail
· Track system history
· User operation history tracking
· Track history by period and user

Access Control

· System operation based on authenticated users
· System user registration and management
· Restrict system access according to each user's authority
  (ADMIN : 1, MANAGER : 10, USER : 100)

USER'S AUTHORITY

ADMIN
System operation
Operation control related setting
Electronic signature
User management
Trend and history management

MANAGER
System operation
Operation control related setting
Electronic signature

USER
System operation
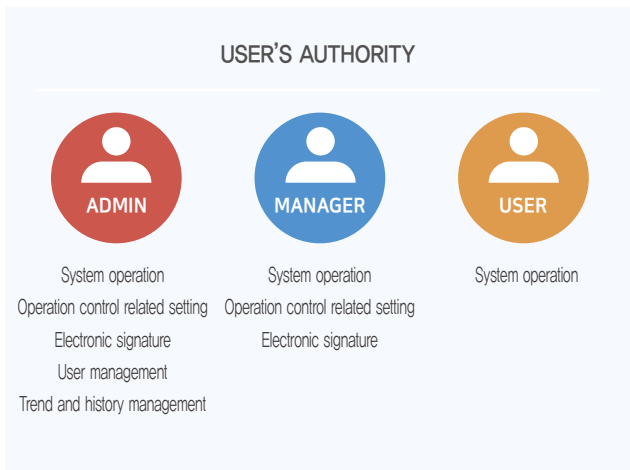
Electronic Record

· Provide database of electronic document records for the history of system event occurence
· Generate operation history data for user's operation
· Record previous and subsequent values of operation data for parameter

User Login
Screen Display
Record
Setting

DATA-BASE

Embedded Data-Base
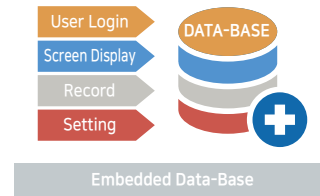
01 Robust to data tampering and corruption by providing high security

02 Easily and quickly perform a large amount of historical data search

03 Perform search filtering function by date and user more easily

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Electronic Signature

· Electronic signature for each trend data recorded by authorized users

Choose GOOD   Choose NG

Audit Trail

· Support tracking by user and period
· Can be saved as PDF or EXCEL

Before RECORD → After RECORD

Before OFF → After ON

Product specification

Group	Item	SDR102F	SDR104F	SDR106F	SDR112F
Screen	Display	5.7" TFT-LCD(640(W) X 480(H))			
	Display type	Trend, Bar, Digital, Event, History of Error, Information(Alarm, Message, Memory capacity)			
	Language	Korean, English, Japanese, Chinese			
Input section	Number of channel	2 Channel	4 Channel	6 Channel	12 Channel
	Input types	TC	K, J, E, T, R, B, S, L, N, U, W, Platinel II, C		
		RTD	Pt100(IEC), Jpt100(JIS), 1/100 Displayable		
		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(Scale : -30000 ~ 30000)		
		DCV unit	C, F, BLANK, %, Pa, kPa, %RH, mV, V, Ω, mmHg, kgF		
		TC/RTD unit	C, F		
	Measurement interval	500ms			
	Input accuracy	±0.1% of full scale ±1 digit			
Alarm function	Number of alarm	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			
Alarm output (Option)	Contact point quantity	A contact point Relay 6points, 12points			
		Normal open(Max. 30V DC 1A/250VAC 1A)			
Remote input (Option)	Contact point quantity	2points(Contact point Volume: Maximum 12V DC, 10mA)			
	Contact point function	DI errors and cycle recording, Setting the DI detection leg-time			
Data storage function	Internal memory	Flash memory(64M)/Non-volatile			
	Exterior memory	SD/SDHC card(FAT 32 format)			
	Save method	Save at the Interior/Exterior(SD card) memory			
	Data type	Recorded data & Message			
	Data format	Binary format			
Communication	Interface	Basic RS232C/485 selection, Communication speed : Max. 115,200bps , Ethernet(TCP/IP)			
	Protocol	PC-Link, PC-Link(Checksum), Modbus(ASCII, RTU)			
Product size and weight	Size	144(W) X 144(H) X 188(D) mm			
	Weight	1.1Kg		1.2Kg	1.3Kg
	Case material	PC + ABS			
Power	Rated voltage	100 ~ 240V AC, 50/60 Hz			
	Consumed electric power	15VA Max.			

External dimension and panel cutting size

Panel cutting dimension (Unit : mm)

136,5

144

144
158

137⁺²₀

137⁺²₀

180(MIN)

180(MIN)

2 ~ 7mm (Panel thickness)

136,5

8,5

181

Model code

SDR 1 * * F - N * * / *
　　　　①　　　②③　④

① **Number of Controlled Channels**
02 : 2Channels
04 : 4Channels
06 : 6Channels
12 : 12Channels

② **Alarm Output**
N : None
A1 : Relay 6Points
A2 : Relay 12Points

③ **Remote Input**
N : None
R1 : DI 2Points

④ **Others**
M1 : Computation Function
P1 : Portable Type