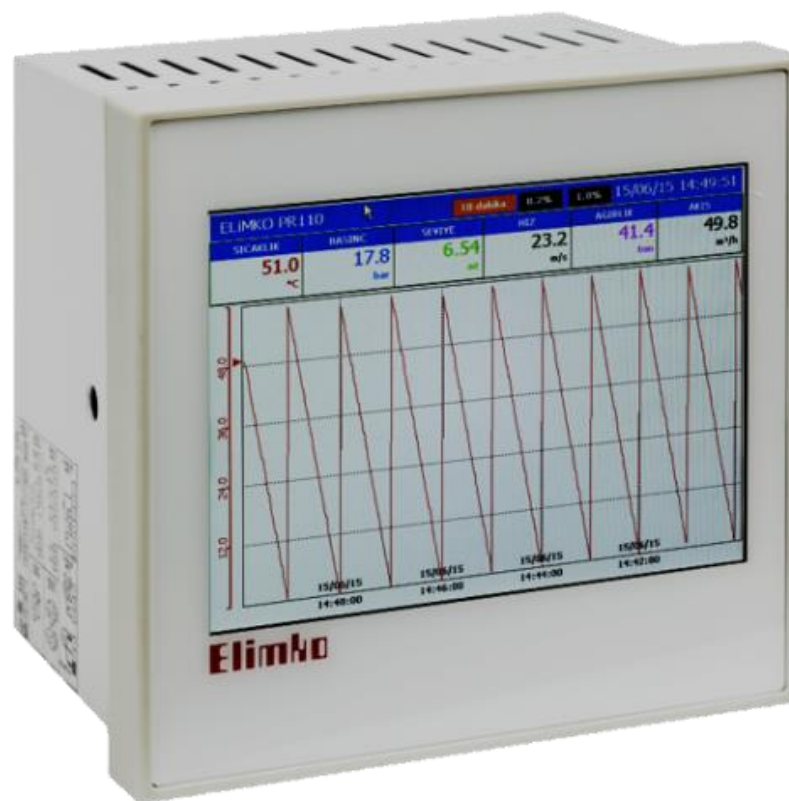


Elimko



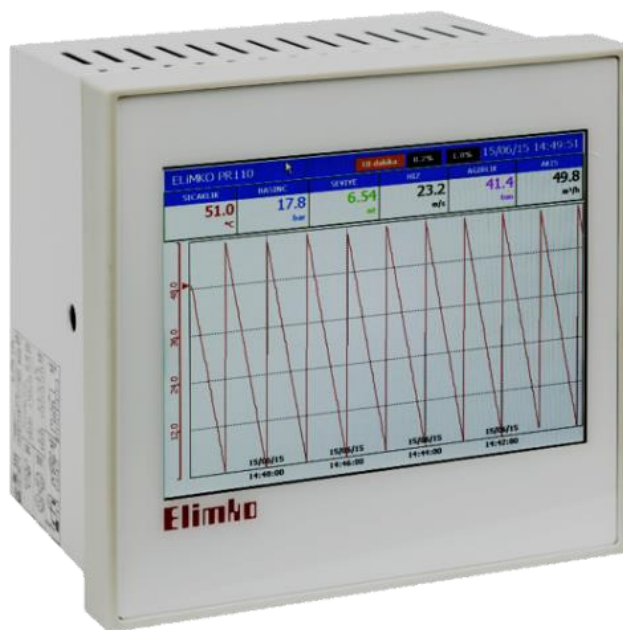
RELIABLE NAME IN AUTOMATIC CONTROL...

ELIMKO – PAPERLESS RECORDER E-PR-110



ELIMKO – PAPERLESS RECORDER E-PR-110

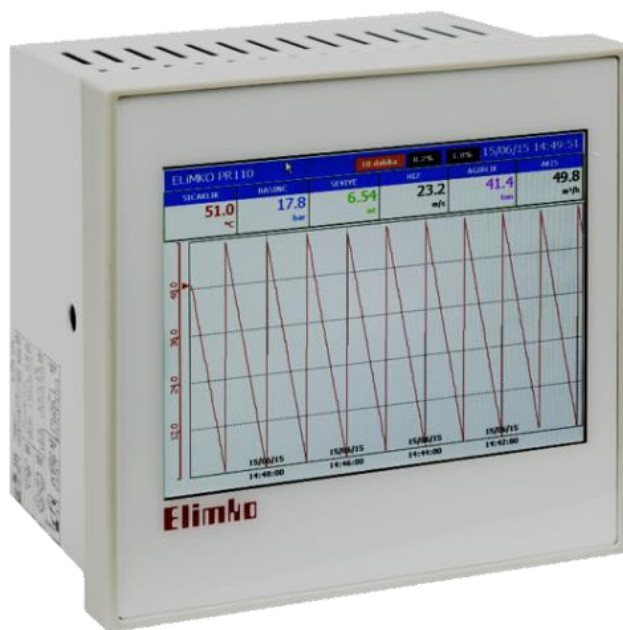
TECHNICAL SPECIFICATIONS



- 5.7 " 640X480 Touch panel TFT color LCD screen
- Max. 24 channel universal analog input
- Max. 16 channel analog output
- Max. 64 channel digital input/output
- Max. 18 relay output
- Standard RS485 MODBUS Communication port
- 1 USB Port
- Standard 10/100 Mbit Ethernet Port
- 144x144 dimensions

ELIMKO – PAPERLESS RECORDER E-PR-110

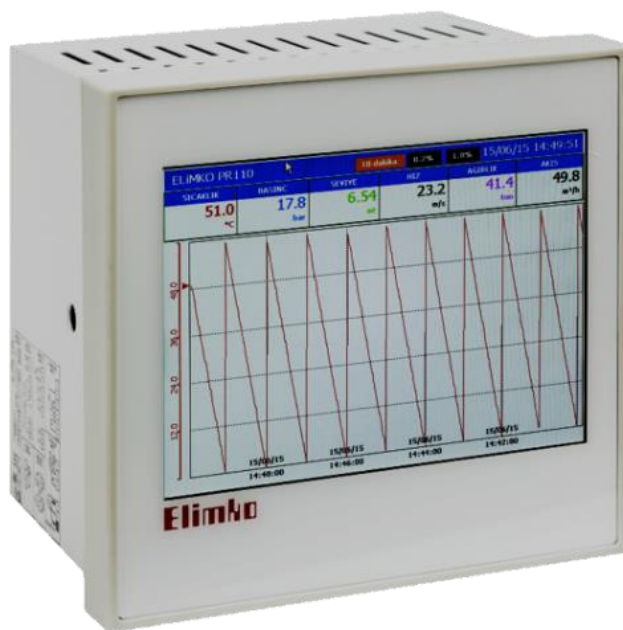
TECHNICAL SPECIFICATIONS



- 24 Vdc Transmitter Supply
- 16 Math channels
- Max. 16 channel modbus input
- Real Time Channels (RTC)
- 6 process groups channels
- Non-linear table configuration
- Batch start / Batch stop

ELIMKO – PAPERLESS RECORDER E-PR-110

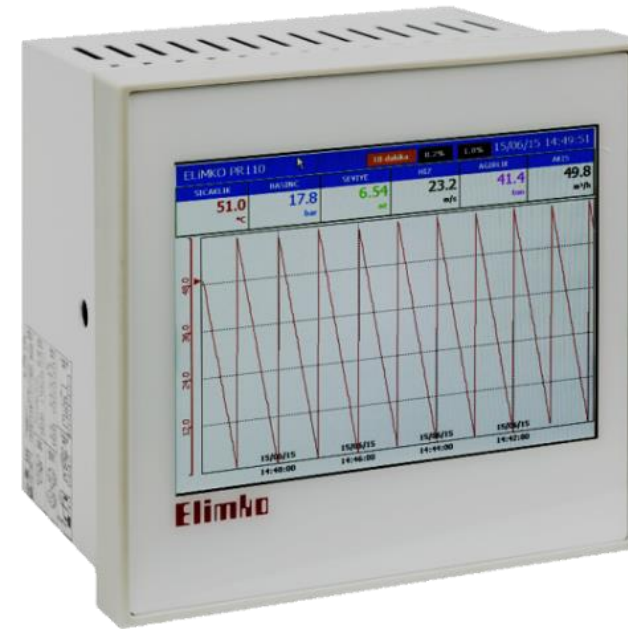
TECHNICAL SPECIFICATIONS



- **TCP/IP Modbus Master / Slave Protocol**
- **RS-485 Modbus Master / Slave Protocol**
- **Optional Wi-Fi**
- **Data connection with internal HTTP ve FTP Server**
- **Sending reports via e-mail**
- **Data Explorer Pro PC software online data transfer via Ethernet**
- **Data transfer in Excel format**

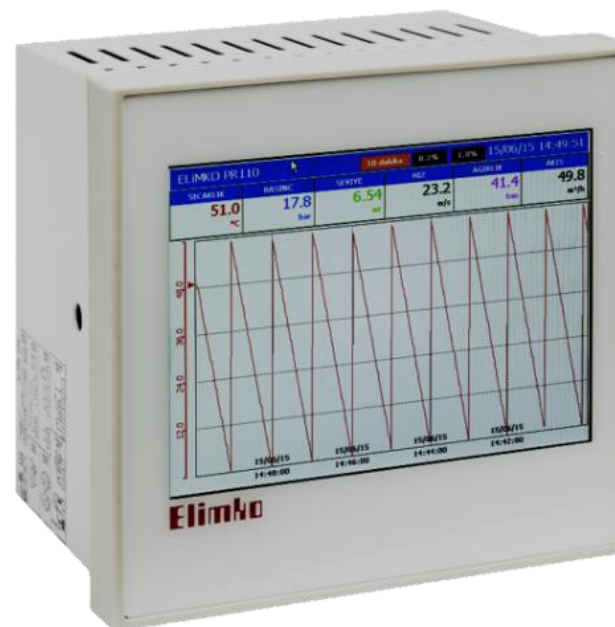
TECHNICAL SPECIFICATIONS

- Programmable universal input types:
T/C (B,E,J,K,L,N,R,S,T,U)
RT (Pt-50, Pt-100, Pt-500, Pt-1000,
Ni100, Ni200, Ni500, Ni1000),
0-20 mA, 0-10 V, -2000/+2000 mV
- 8 GB Micro SD flash memory
- 100 ms Sampling rate
- SPST-NO 250 V AC, 5 A Relay output
- 0.5 Accuracy class
- Language options : Turkish and English

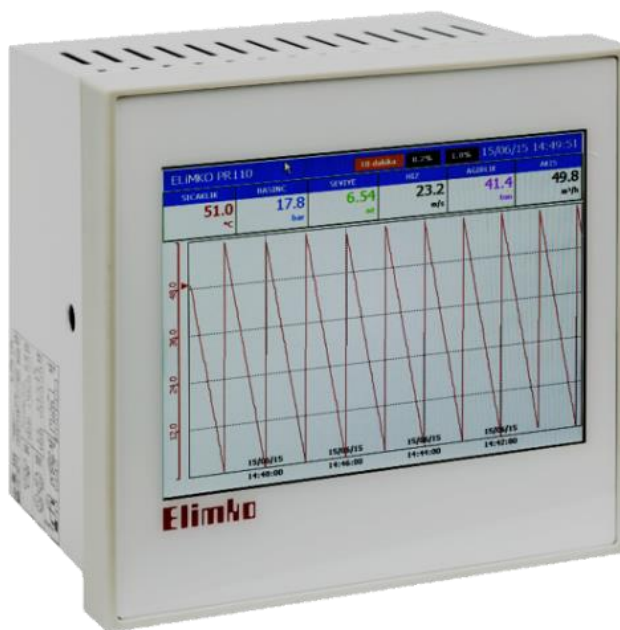


TECHNICAL SPECIFICATIONS

- Licenced operating system
- 5 different users authorization
- Add operator message
- Configuration:
Touch screen, Front panel buttons,
USB Mouse and Keyboard
connections
- Operating temperature: 0-50°C
- Power consumption : 30 W max.



SPECIFICATIONS – MENU PAGES



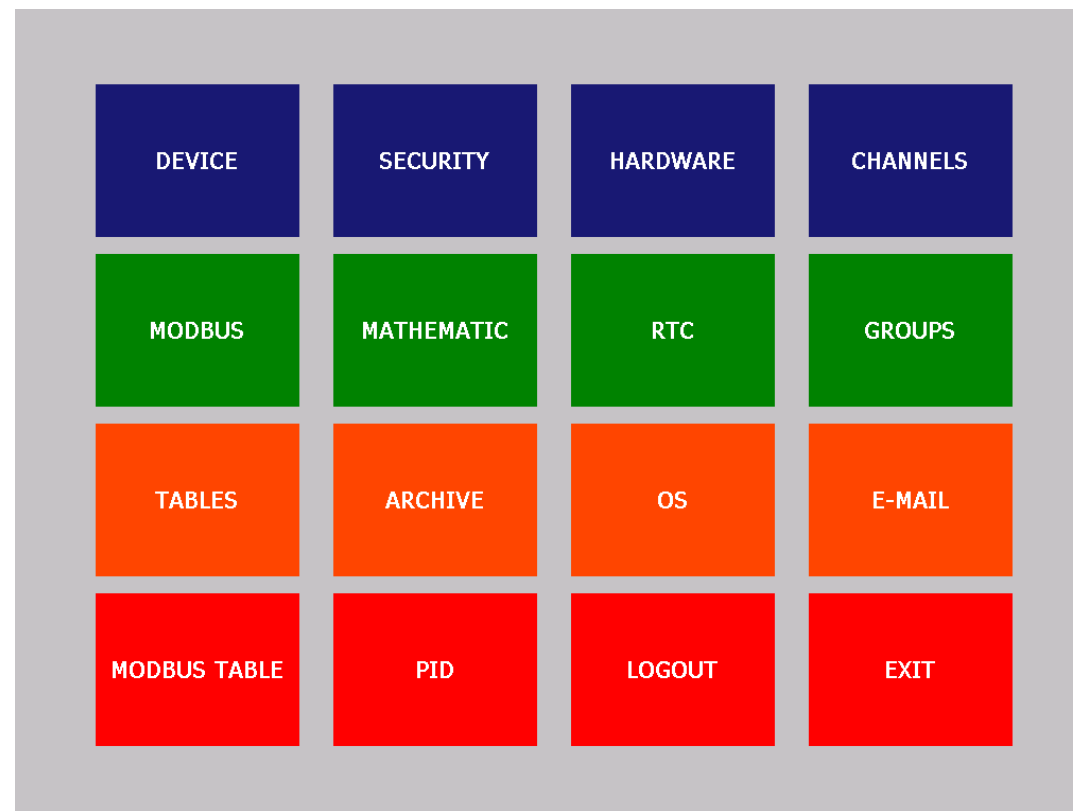
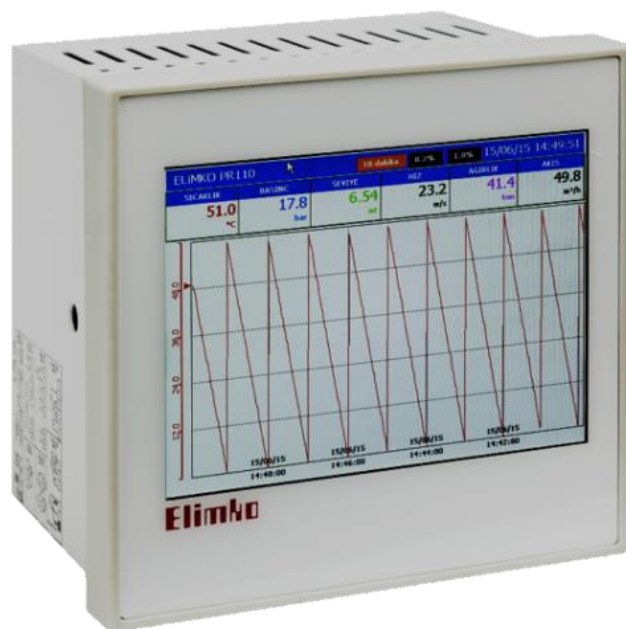
PASSWORD

User

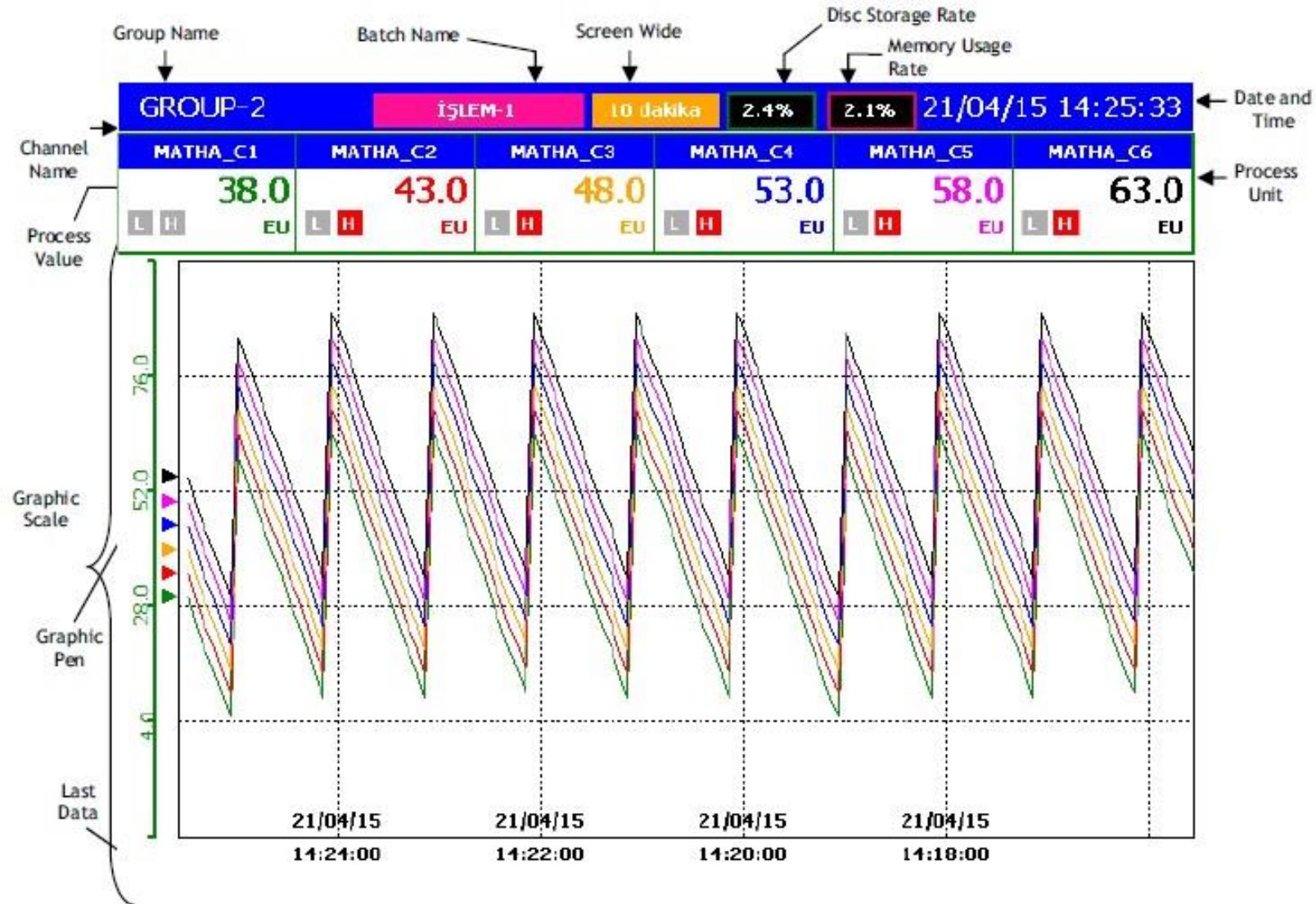
Password

LOGIN MENU CANCEL

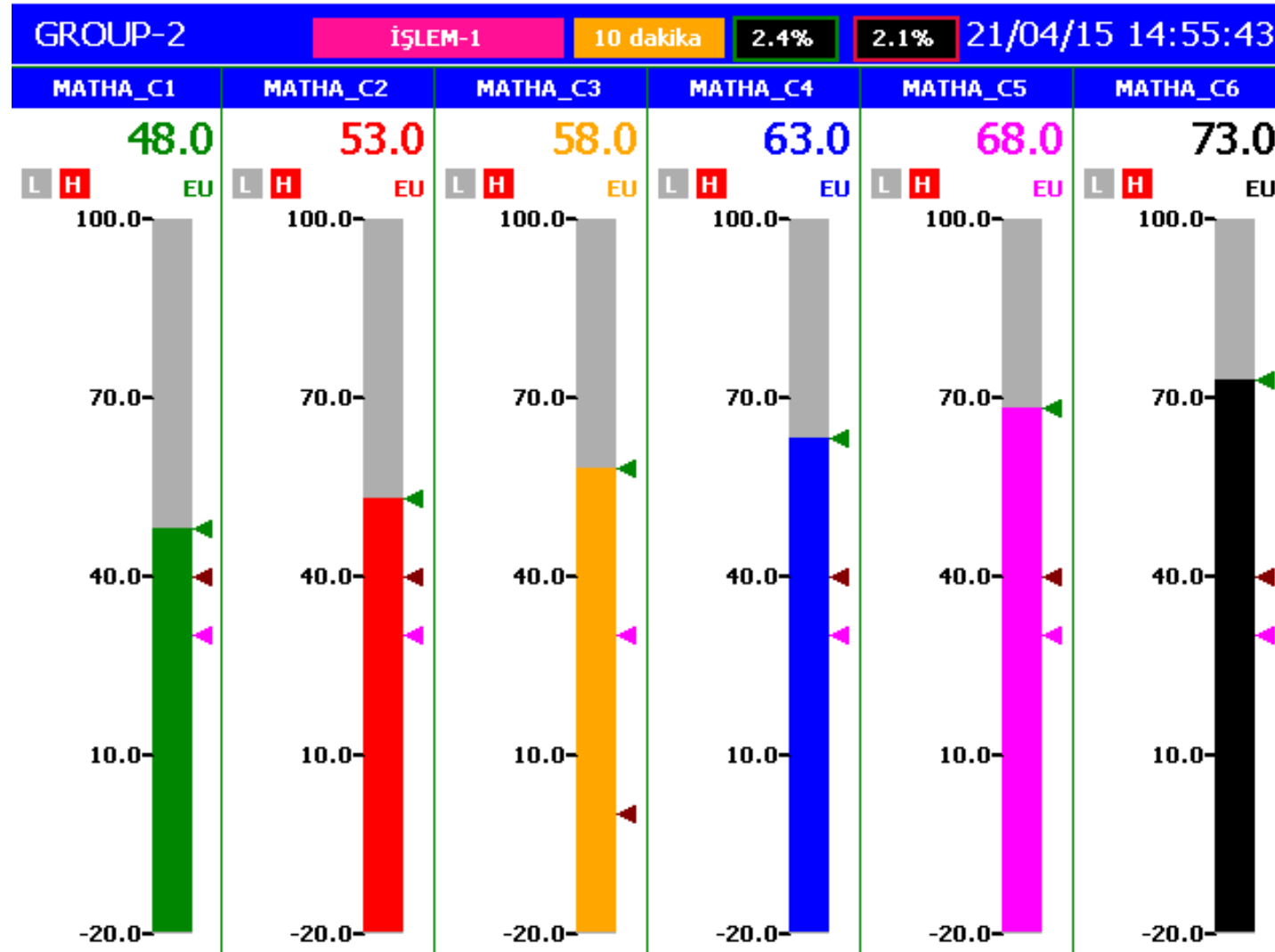
SPECIFICATIONS – MAIN MENU



SPECIFICATIONS – TREND PAGE



SPECIFICATIONS – BAR GRAPHIC PAGE



SPECIFICATIONS – DIGITAL VIEW PAGE

GROUP-2		İŞLEM-1		10 dakika	2.4%	2.1%	21/04/15 15:04:45
MATHA_C1				MATHA_C2			
50.0 1144.1 EU EUT				55.0 631.3 EU EUT			
MATHA_C3				MATHA_C4			
60.0 1497.1 EU EUT				65.0 1673.6 EU EUT			
MATHA_C5				MATHA_C6			
70.0 1850.1 EU EUT				75.0 2026.7 EU EUT			

SPECIFICATIONS – OVERVIEW PAGE

OVERVIEW															
AIN_54C1				AIN_54C2				AIN_54C3				26/02/16 13:48:39			
OPEN				OPEN				OPEN							
AIN_55C1				AIN_55C2				AIN_55C3							
-0.8				-0.9				OPEN							
AIN_56C1				AIN_56C2				AIN_56C3							
OPEN				OPEN				OPEN							
RELAY_57C1				RELAY_57C2				RELAY_57C3				RELAY_57C5			
OFF				OFF				OFF				OFF			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MATHA_C1				MATHA_C2				MATHA_C3				MATHA_C4			
-4.2				15.8				35.8				55.8			
MATHA_C5				MATHA_C6				MATHA_C7				MATHA_C8			
75.8				95.8				115.8				135.8			
MATHA_C9				MATHA_C10				MATHA_C11				MATHA_C12			
155.8				0.0				195.8				215.8			
MATHA_C13				MATHA_C14				MATHA_C15				MATHA_C16			
0				0				269.3				269.3			

SPECIFICATIONS – MENU PAGES (DEVICE INFORMATION)

DEVICE INFORMATION

General Settings

Device Type	PR-200	
Version	1.0.3 PID	
Tag	ARGE-PR200	
NTP	OFF	
NTP Server	time.nist.gov	
Date and Time	26/02/16 15:11:50	SET

FACTORY SETTINGS

SAVE CLOSE

SPECIFICATIONS – MENU PAGES

SECURITY SETTINGS

User	<input type="text" value="Admin"/>
Name	<input type="text" value="ADMIN"/>
Password	<input type="password" value="**"/>
Re-enter Password	<input type="password" value="**"/>
ACCESS RIGHTS	
Device Settings	<input type="text" value="OFF"/>
Hardware	<input type="text" value="OFF"/>
Channel Settings	<input type="text" value="OFF"/>
Group Settings	<input type="text" value="OFF"/>
Archive	<input type="text" value="OFF"/>

SPECIFICATIONS – MENU PAGES (SLOT CHANNELS)

SLOT CHANNELS

Slot **MODBUS**

Slot	MODBUS Input	Alarm 1	Alarm 2	Totalizer	Recording
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NAME:

DESCRIPTION:

CONNECTION:

ADDRESS:

IP ADDRESS:

FUNCTION:

REGISTER:

REGISTER:

DECIMAL:

UNIT:

LIST SELECTION

Options

- MODBUS
- MATH. ANALOG
- MATH. DIGITAL
- 3 ANALOG OUTPUT
- 4 ANALOG INPUT
- 5 ANALOG INPUT
- 6 ANALOG INPUT
- 7 RELAY OUTPUT
- 8 DIGITAL OUTPUT
- 9 DIGITAL INPUT

SELECT CANCEL

SAVE CLOSE

SPECIFICATIONS – MENU PAGES (SLOT CHANNELS)

SLOT CHANNELS

Slot **4 ANALOG INPUT**

1	Input	Alarm 1	Alarm 2	Totalizer	Recording
2	Name	AIN_S4C1			
3	Description				
	Input Type	Thermocouple			
	Range Low	0	Range High	20	
	Linearization	Type K			
	Decimal P.	0			
	Zero	0	Span	400	
	Sensor Break	SET HIGH	Shift Value	0	
	Unit				
	CJ Type	REZERVED	CJ Temp.	0.0	
	CJ Source	NO SOURCE			

SAVE CLOSE

SPECIFICATIONS – MENU PAGES (SLOT CHANNELS)

SLOT CHANNELS

Slot **7 RELAY OUTPUT**

1	Output
2	Name RELAY_S7C1
3	Description
4	Off Message OFF
5	On Message ON
6	Source 1 NO SOURCE
	Source 2 NO SOURCE
	Source 3 NO SOURCE
	Source 4 NO SOURCE
	Source 5 NO SOURCE
	PWM Source NO SOURCE %
	PWM Period 1 second(s)

SAVE CLOSE

SPECIFICATIONS – MENU PAGES

HARDWARE

Slot Ethernet Serial Port Screen

1	Empty	5	ANALOG INPUT
2	RELAY OUTPUT	6	ANALOG INPUT
3	ANALOG OUTPUT	7	ANALOG INPUT
4	ANALOG INPUT	8	DIGITAL OUTPUT
		9	DIGITAL INPUT

Scanning Process

Scanning slot 1 ...
Empty found...
Scanning slot 2 ...
RELAY OUTPUT found...
Scanning slot 3 ...
ANALOG OUTPUT found...
ANALOG OUTPUT calibration values are being extracted
ANALOG OUTPUT calibration values were taken
Scanning slot 4 ...
ANALOG INPUT found...

SCAN

CLOSE

SPECIFICATIONS – MENU PAGES (HARDWARE)

HARDWARE

Slot Ethernet Serial Port Screen

IP Type

Obtain an IP address via DHCP

IP Address

192.168.42.81

Subnet Mask

255.255.255.0

Default Gateway

192.168.42.254

SAVE

CLOSE

SPECIFICATIONS – MENU PAGES

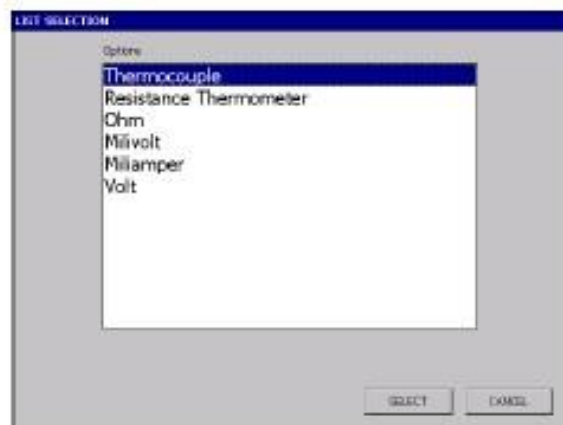


Figure 6.21 Input Type Selection

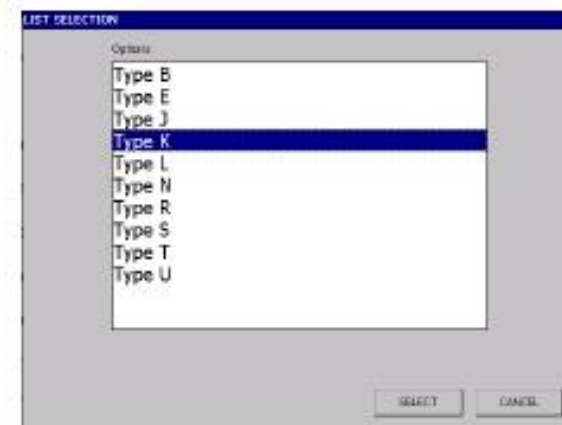


Figure 6.22 Linearization Select
(Input Type Thermocouple)



Figure 6.23 Linearization Select
(Input Type Resistance Thermometer)



Figure 6.24 Linearization Select
(Input Type Ohm, Millivolt, Milliampere or Volt)

SPECIFICATIONS – MENU PAGES

ARCHIVE

Synchronization Backup

Sync. Direction **DEVICE TO DISK**

Directory Name

Sync. Type **COMPLETE**

From

SPECIFICATIONS – MENU PAGES (E-MAIL REPORTS)

E-MAIL

Server Recipients Sources Events

Server

Port

SSL ☒ ON

User

Password

SAVE CLOSE

SPECIFICATIONS – MENU PAGES (PID CONTROL)

PID CONTROL CHANNELS

PID Source **SOURCE-1**

Name	PID_C1	Proportional Band	70.000
Description		Integral Time	70
Input Source	AIN_S5C1	Derivative Time	0
Set Type	INTERNAL	Set Source	MATHA_C15
Min. Set	0.0	Max. Set	500.0
Min. Out	0.0	Max. Out	100.0
Cycle Time	2	Manual Reset	0.0
Control Form	REVERSE		

SAVE CLOSE

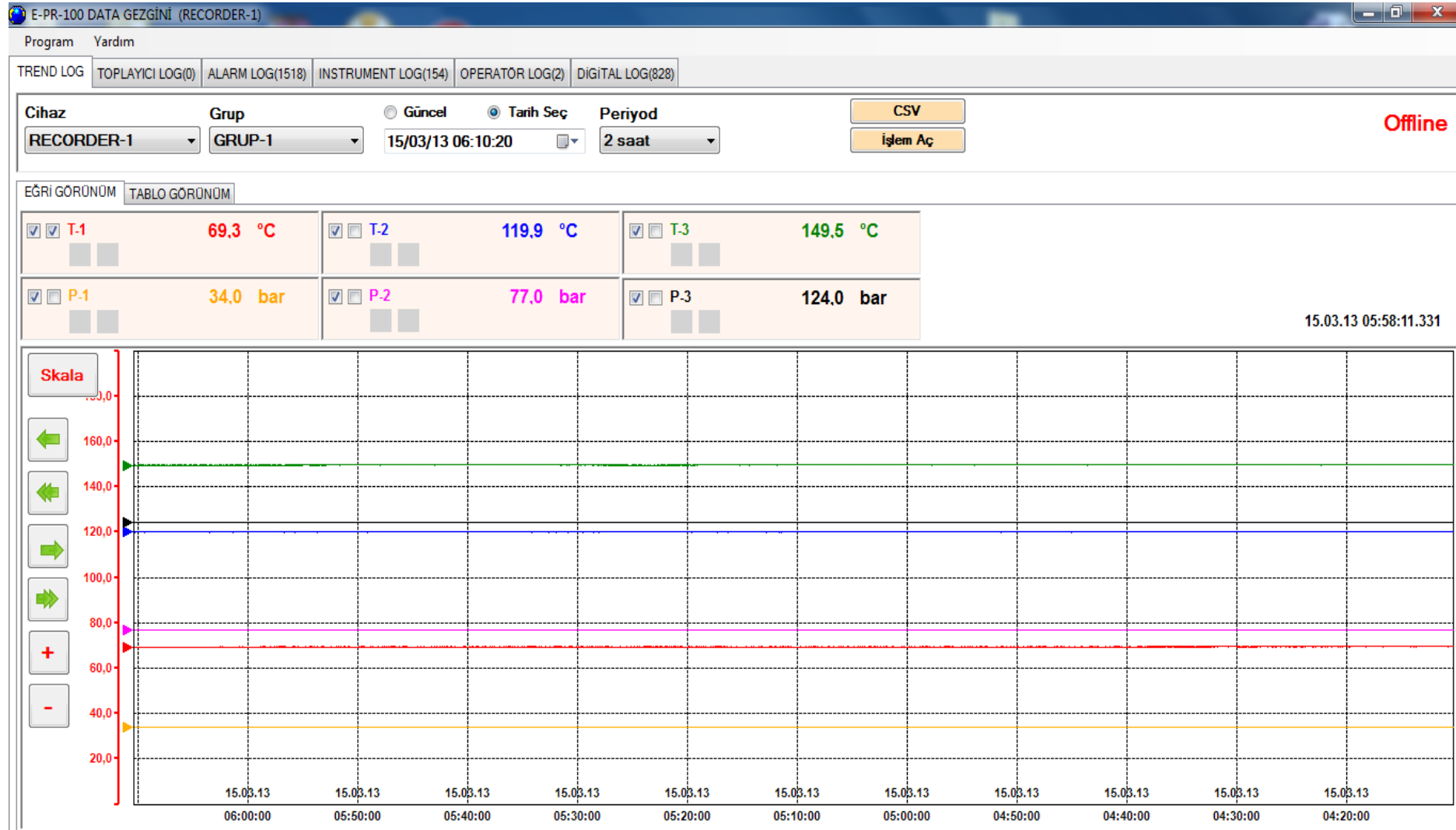
SPECIFICATIONS – MENU PAGES (LOG PAGES)

SAYISAL LOG			
10 dakika 0.6% 2.3% 07/03/16 14:40:40			
NO(1/3)	KAYNAK	TARİH	AÇIKLAMA
84	DIN_C16	16/03/15 09:47:47	DIN_C16 OFF
83	DIN_C16	16/03/15 09:47:42	DIN_C16 ON
82	DIN_C15	16/03/15 09:47:42	DIN_C15 OFF
81	DIN_C15	16/03/15 09:47:41	DIN_C15 ON
80	DIN_C15	16/03/15 09:47:41	DIN_C15 OFF
79	DIN_C15	16/03/15 09:47:39	DIN_C15 ON
78	DIN_C14	16/03/15 09:47:38	DIN_C14 OFF
77	DIN_C14	16/03/15 09:47:32	DIN_C14 ON
76	DIN_C13	16/03/15 09:47:32	DIN_C13 OFF
75	DIN_C13	16/03/15 09:47:28	DIN_C13 ON
74	DIN_C12	16/03/15 09:47:28	DIN_C12 OFF
73	DIN_C12	16/03/15 09:47:24	DIN_C12 ON
72	DIN_C11	16/03/15 09:47:22	DIN_C11 OFF
71	DIN_C11	16/03/15 09:47:19	DIN_C11 ON
70	DIN_C10	16/03/15 09:47:19	DIN_C10 OFF
69	DIN_C10	16/03/15 09:47:15	DIN_C10 ON
68	DIN_C9	16/03/15 09:47:15	DIN_C9 OFF
67	DIN_C9	16/03/15 09:47:11	DIN_C9 ON
66	DIN_C8	16/03/15 09:47:10	DIN_C8 OFF
65	DIN_C8	16/03/15 09:47:06	DIN_C8 ON
64	DIN_C7	16/03/15 09:47:06	DIN_C7 OFF
63	DIN_C7	16/03/15 09:47:02	DIN_C7 ON
62	DIN_C6	16/03/15 09:47:01	DIN_C6 OFF
61	DIN_C6	16/03/15 09:46:57	DIN_C6 ON
60	DIN_C5	16/03/15 09:46:56	DIN_C5 OFF
59	DIN_C5	16/03/15 09:46:43	DIN_C5 ON
58	DIN_C4	16/03/15 09:46:42	DIN_C4 OFF
57	DIN_C4	16/03/15 09:46:39	DIN_C4 ON
56	DIN_C3	16/03/15 09:46:38	DIN_C3 OFF
55	DIN_C3	16/03/15 09:46:16	DIN_C3 ON
54	DIN_C2	16/03/15 09:46:15	DIN_C2 OFF
53	DIN_C2	16/03/15 09:46:12	DIN_C2 ON

CIHAZ LOG			
10 dakika 0.6% 2.3% 07/03/16 14:40:22			
NO(1/9)	TARİH	AÇIKLAMA	
301	07/03/16 14:35:41	ADMIN giriş yapı	
300	07/03/16 14:29:49	RTC zaman eşitleme başarıyla tamamlandı	
299	07/03/16 14:29:45	E-PR-200 açıldı	
298	07/03/16 14:28:34	RTC zaman eşitleme başarıyla tamamlandı	
297	07/03/16 14:28:30	E-PR-200 açıldı	
296	07/03/16 14:27:29	RTC zaman eşitleme başarıyla tamamlandı	
295	07/03/16 14:27:26	E-PR-200 açıldı	
294	07/03/16 14:26:52	ADMIN giriş yapı	
293	07/03/16 14:26:35	RTC zaman eşitleme başarıyla tamamlandı	
292	07/03/16 14:26:31	E-PR-200 açıldı	
291	07/03/16 14:25:27	RTC zaman eşitleme başarıyla tamamlandı	
290	07/03/16 14:25:24	E-PR-200 açıldı	
289	07/03/16 14:16:49	RTC zaman eşitleme başarıyla tamamlandı	
288	07/03/16 14:16:46	E-PR-200 açıldı	
287	07/03/16 14:16:08	RTC zaman eşitleme başarıyla tamamlandı	
286	07/03/16 14:16:04	E-PR-200 açıldı	
285	07/03/16 14:14:24	ADMIN giriş yapı	
284	07/03/16 13:57:28	RTC zaman eşitleme başarıyla tamamlandı	
283	07/03/16 13:57:25	E-PR-200 açıldı	
282	07/03/16 13:56:37	RTC zaman eşitleme başarıyla tamamlandı	
281	07/03/16 13:56:35	E-PR-200 açıldı	
280	07/03/16 13:53:51	ADMIN giriş yapı	
279	07/03/16 13:53:28	RTC zaman eşitleme başarıyla tamamlandı	
278	07/03/16 13:53:26	E-PR-200 açıldı	
277	07/03/16 13:52:31	RTC zaman eşitleme başarıyla tamamlandı	
276	07/03/16 13:52:29	E-PR-200 açıldı	
275	07/03/16 13:51:27	RTC zaman eşitleme başarıyla tamamlandı	
274	07/03/16 13:51:25	E-PR-200 açıldı	
273	07/03/16 13:49:29	ADMIN giriş yapı	
272	07/03/16 13:49:19	RTC zaman eşitleme başarıyla tamamlandı	
271	07/03/16 13:49:16	E-PR-200 açıldı	
270	07/03/16 13:48:42	RTC zaman eşitleme başarıyla tamamlandı	

ALARM LOG			
10 dakika 0.6% 2.3% 07/03/16 14:40:02			
NO(1/286)	KAYNAK	TARİH	AÇIKLAMA
63123	MATHALR1_C1	07/03/16 14:40:01	MATHALR1_C1 OFF
63122	MATHALR2_C2	07/03/16 14:39:57	MATHALR2_C2 ON
63121	MATHALR2_C5	07/03/16 14:39:54	MATHALR2_C5 ON
63120	MATHALR2_C4	07/03/16 14:39:54	MATHALR2_C4 ON
63119	MATHALR1_C2	07/03/16 14:39:54	MATHALR1_C2 OFF
63118	MATHALR2_C5	07/03/16 14:39:37	MATHALR2_C5 OFF
63117	MATHALR2_C4	07/03/16 14:39:37	MATHALR2_C4 OFF
63116	MATHALR1_C2	07/03/16 14:39:37	MATHALR1_C2 ON
63115	MATHALR2_C2	07/03/16 14:39:34	MATHALR2_C2 OFF
63114	MATHALR1_C1	07/03/16 14:39:31	MATHALR1_C1 ON
63113	MATHALR2_C1	07/03/16 14:39:27	MATHALR2_C1 OFF
63112	MATHALR2_C1	07/03/16 14:39:04	MATHALR2_C1 ON
63111	MATHALR1_C1	07/03/16 14:39:01	MATHALR1_C1 OFF
63110	MATHALR2_C3	07/03/16 14:38:57	MATHALR2_C3 ON
63109	MATHALR2_C5	07/03/16 14:38:54	MATHALR2_C5 ON
63108	MATHALR2_C4	07/03/16 14:38:54	MATHALR2_C4 ON
63107	MATHALR1_C2	07/03/16 14:38:54	MATHALR1_C2 OFF
63106	MATHALR2_C5	07/03/16 14:38:37	MATHALR2_C5 OFF
63105	MATHALR2_C4	07/03/16 14:38:37	MATHALR2_C4 OFF
63104	MATHALR1_C2	07/03/16 14:38:37	MATHALR1_C2 ON
63103	MATHALR2_C2	07/03/16 14:38:34	MATHALR2_C2 OFF
63102	MATHALR1_C1	07/03/16 14:38:31	MATHALR1_C1 ON
63101	MATHALR2_C1	07/03/16 14:38:27	MATHALR2_C1 OFF
63100	MATHALR2_C1	07/03/16 14:38:04	MATHALR2_C1 ON
63099	MATHALR1_C1	07/03/16 14:38:01	MATHALR1_C1 OFF
63098	MATHALR2_C2	07/03/16 14:37:57	MATHALR2_C2 ON
63097	MATHALR2_C5	07/03/16 14:37:54	MATHALR2_C5 ON
63096	MATHALR2_C4	07/03/16 14:37:54	MATHALR2_C4 ON
63095	MATHALR1_C5	07/03/16 14:37:54	MATHALR1_C5 OFF
63094	MATHALR2_C5	07/03/16 14:37:37	MATHALR2_C5 OFF
63093	MATHALR2_C4	07/03/16 14:37:37	MATHALR2_C4 OFF
63092	MATHALR1_C2	07/03/16 14:37:37	MATHALR1_C2 ON

SPECIFICATIONS – DATA EXPLORER VIEW



SPECIFICATIONS – DATA EXPLORER VIEW (EXCEL SPREADSHEET)

E-PR-100 DATA GEZGİNİ (RECORDER-1)

Program Yardım

TREND LOG TOPLAYICI LOG(0) ALARM LOG(1518) INSTRUMENT LOG(154) OPERATOR LOG(2) DIGITAL LOG(828)

Cihaz: RECORDER-1 Grup: GRUP-1 Güncel ☒ Tarih Seç 15/03/13 06:10:20 Periyod: 2 saat Aralık: 1 saniye CSV İşlem Aç

Offline

EĞRİ GÖRÜNÜM TABLO GÖRÜNÜM

	Tarih	Zaman	T-1 (°C)	T-2 (°C)	T-3 (°C)	P-1 (bar)	P-2 (bar)	P-3 (bar)	
▶	15.03.13	04:10:21	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:22	69,5	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:23	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:24	69,5	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:25	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:26	69,4	120,1	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:27	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:28	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:29	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:30	69,5	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:31	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:32	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:33	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:34	69,4	120,1	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:35	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:36	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:37	69,4	120,0	120,0	149,7	34,0	77,0	124,0
	15.03.13	04:10:38	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:39	69,4	120,1	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:40	69,5	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:41	69,4	120,1	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:42	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:43	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:44	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:45	69,4	120,0	120,0	149,6	34,0	77,0	124,0
	15.03.13	04:10:46	69,4	120,0	120,0	149,6	34,0	77,0	124,0

EXCELL