

Paperless Recorder and Control Device



OPR600

Device Features

5.7" 640 x 480 Touch Color TFT Display
 32GB Flash Memory
 Isolated Universal Analog Input up to 12 Channels
 Creating up to 32 Virtual Channels
 16 Bit High Resolution Sampling
 Up to 48 Channels 24V Logic Digital Input
 Up to 24 Channels Relay Output
 8 pcs Analog Outputs (0 / 4-20mA or 0 / 2-10V)
 10/100 Mbit Ethernet Input
 RS485 Modbus RTU (Isolated)
 Transmitter Supply Output (24V)
 220Vac Supply Input
 2 pcs USB2.0 Port
 VGA Monitor Output

Pt-50, Pt-100, Pt-500, Pt-1000, Ni-100, Ni-120, Ni-200, Ni-500, Ni-1000, NiFe-604, NiFe-507, 0-50mV, 0-1V, 0-10V, 2-10V, 0-20mA, 4-20mA, TC-B, E, J, K, L, N, R, S, T, U Input Types
 Send E-Mail

USB Flash Disc with Data Backup
 USB Mouse / Keyboard Support
 Live Over TCP Data Flow
 Automatic or Manual Process Management
1 Program 10 Steps Control Feature For Each Channel
Start / Stop Feature for Step Control
Ability to Control ON / OFF or PID Heating / Cooling
Auto-Tuning (automatic tuning of PID parameters)
Retransmission (for process value)
Alarm Output According to Time or Event
Ability to Make Mathematical Operations Between-Channels (Average, Addition, Subtraction, Division etc.)
 Totalizer Feature
 Graphics, Bar and Table Formats
 Turkish and English Language Support

OPR600 devices are an industrial paperless recording and control device with a 640 x480 pixel resolution touch screen. They are designed to measure the temperature, pressure, speed, level, humidity, current, voltage, resistance and other physical units. It is used in Food, Plastic, Iron and Steel, Chemistry, Metallurgy, Cement, Ceramics, Petro-Chemistry, Refineries, Glass and other industries. They are ergonomic devices whose compliance with international standards, reliability and ease of use have been ensured at the design stage.

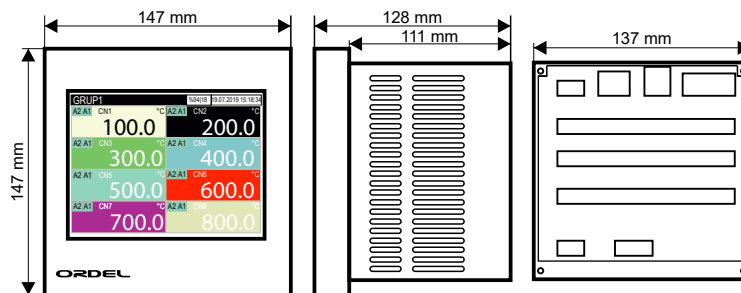
Input Types

Sensor Type	Standard	Min.	Max.
Type-T (Cu-Const)	IEC60584	-200 °C	300 °C
Type-U (Cu-Const)	IEC60584	-200 °C	600 °C
Type-J (Fe-Const)	IEC60584	-200 °C	800 °C
Type-L (Fe-Const)	IEC60584	-200 °C	900 °C
Type-K (NiCr-Ni)	IEC60584	-200 °C	1200 °C
Type-E (Cr-Const)	IEC60584	-200 °C	1200 °C
Type-N (Nicrosil-Nisil)	IEC60584	0 °C	1200 °C
Type-S (Pt%10Rh-Pt)	IEC60584	0 °C	1500 °C
Type-R (Pt%13Rh-Pt)	IEC60584	0 °C	1600 °C
Type-B (Pt%18Rh-Pt)	IEC60584	0 °C	1800 °C
Resistance Thermometers		-200 °C	850 °C
0 / 4-20 mA		0 mA	20 mA
0 / 2-10 VDC		0 VDC	10 VDC

Technical Specifications

Power Supply (PS)	115-230 Vac +10%-15% 18-32 Vdc +10%-20%
Power Consumption	6W, 10VA
Universal Sensor Input (S1)	Thermocouple = B ,E, J, K, L, N, R, S, T, U Two Wired Transmitter = 4-20mA Resistance Thermometer = Pt-50, Pt-100, Pt-1000, Ni-100, Ni-120, Ni-200, Ni-500, Ni-1000, NiFe-604, NiFe-507 Current = 0/4-20mA Voltage = 0-50mV, 0-1V, 0/2-10V
Number of Analog Input	Maximum 12 Channel (According to the configuration of the selected coding)
Number of Relay Output	Maximum 24 Relay Output 250Vac 10A (According to the configuration of the selected coding)
Contact Lifetime	No Load = 10.000.000 Switching 250V,10A Resistive Load = 1.000.000 Switching
Transmitter Supply (TX)	24Vdc (I _{sc} = 30 mA)
Number of Digital Input	32 Channel Input
Display	5,7", 640 x 480 resolution, Colors Touch Screen
Analog Input Digital Converter	16 Bit (Isolated for each channel)
Memory	32 GB
Maximum Number of Virtual Channels	32 Virtual Channel Identification
Communication	10 - 100 Mbit Ethernet RS485 - 1 pcs USB input
Accuracy	+/- 0,2%
Environment Temperature	Working : -10...+55°C Storage : -20...+65°C
Protection Class	Front Panel = IP54 Trunk = IP20
Dimensions	Width : 147 mm Height : 147 mm Depth : 128 mm
Panel Cutting Dimensions	138,5 +/-0,5 mm x 138,5 +/-0,5 mm
Weight	2 Kg (Weight may vary according to the hardware.)

Device Dimensions



Panel Cutting Dimensions = 138 ± 0,5 mm x 138 ± 0,5 mm

OPR600 - A - / B - / C - /

A- Module Type : _____ A

- 0 = N/A
- 1 = Analog Input (Standard)
- 2 = Relay Output
- 3 = Digital Input
- 4 = Digital Output
- 5 = Analog Input (Step Control)
- 6 = Analog Output (mA)
- 7 = Analog Output (V)

A-Module Sensor Types : _____

- 0 = N/A
- 1 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-50, Pt-100, Ni-100, Ni-120
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V
- 2 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-1000, Ni-200, Ni-500, Ni-1000, NiFe-604, NiFe-507
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V

Number of A Module Inputs : _____

- 00 = N/A
- 04 = 4 pcs Analog Inputs
- 08 = 8 pcs Relay Outputs
- 16 = 16 pcs Digital Inputs
- 16 = 16 pcs Digital Outputs
- 08 = 8 pcs Analog Outputs
- 10 = 10 pcs Analog Outputs

B- Module Type : _____ B

- 0 = N/A
- 1 = Analog Input (Standard)
- 2 = Relay Output
- 3 = Digital Input
- 4 = Digital Output
- 5 = Analog Input (Step Control)
- 6 = Analog Output (mA)
- 7 = Analog Output (V)

B-Module Sensor Types: _____

- 0 = N/A
- 1 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-50, Pt-100, Ni-100, Ni-120
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V
- 2 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-1000, Ni-200, Ni-500, Ni-1000, NiFe-604, NiFe-507
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V

Number of B Module Inputs : _____

- 00 = N/A
- 04 = 4 pcs Analog Inputs
- 08 = 8 pcs Relay Outputs
- 16 = 16 pcs Digital Inputs
- 16 = 16 pcs Digital Outputs
- 08 = 8 pcs Analog Outputs
- 10 = 10 pcs Analog Outputs

C- Module Type : _____ C

- 0 = N/A
- 1 = Analog Input (Standard)
- 2 = Relay Output
- 3 = Digital Input
- 4 = Digital Output
- 5 = Analog Input (Step Control)
- 6 = Analog Output (mA)
- 7 = Analog Output (V)

C-Module Sensor Types : _____

- 0 = N/A
- 1 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-50, Pt-100, Ni-100, Ni-120
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V
- 2 = TC : B, E, J, K, L, N, R, S, T, U
RT : Pt-1000, Ni-200, Ni-500, Ni-1000, NiFe-604, NiFe-507
Current : 0/4-20mA
Voltage : 0-50mV, 0-1V, 0/2-10V

Number of C Module Inputs : _____

- 00 = N/A
- 04 = 4 pcs Analog Inputs
- 08 = 8 pcs Relay Outputs
- 16 = 16 pcs Digital Inputs
- 16 = 16 pcs Digital Outputs
- 08 = 8 pcs Analog Outputs
- 10 = 10 pcs Analog Outputs

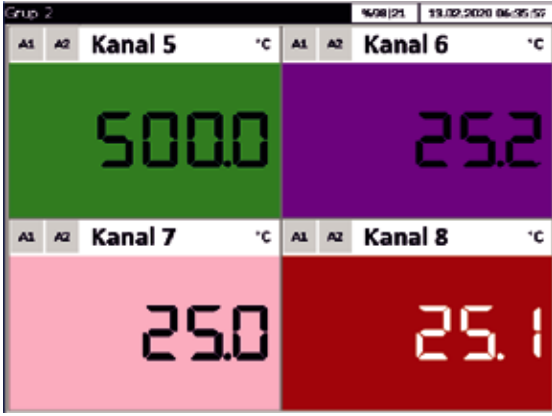
Monitor Output : _____ VGA

- 0 = N/A
- 1 = Yes

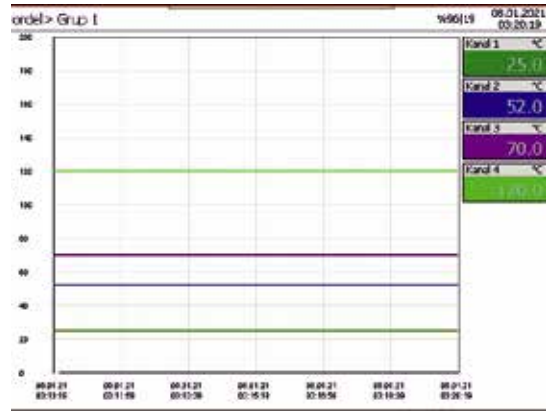
Note: There are 3 slots in the device. These slots are defined as modules A, B, C. Each module must be defined separately.

Screenshots

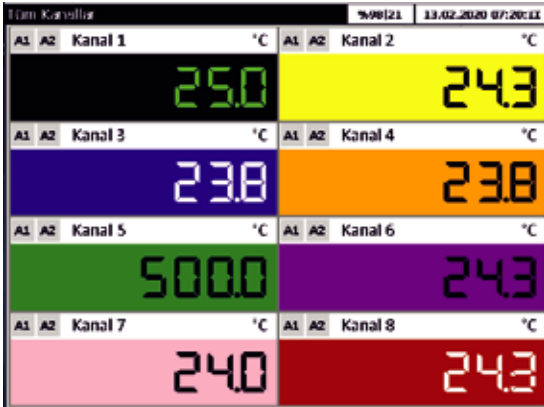
Panel View



Graphic View



All Channels View

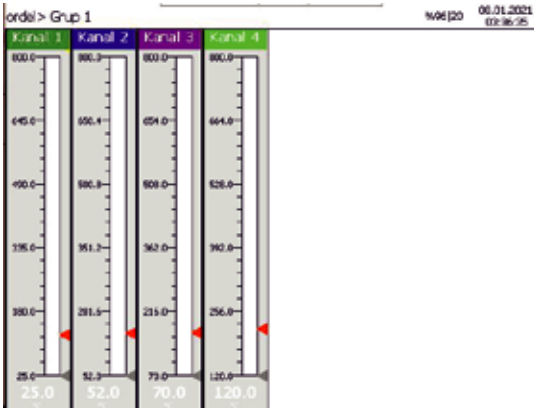


Movement Logging

ordel> Hareket Günlüğü

No	Tarih	Tip	Mesaj
29	08.01.2021 03:04:07	BeniUpdated	Kanal beşaryla kaydedildi 1
30	08.01.2021 03:04:25	BeniUpdated	Orup beşaryla kaydedildi Orup 1
28	08.01.2021 03:03:51	BeniUpdated	Kanal beşaryla kaydedildi 4
26	08.01.2021 03:03:24	BeniUpdated	Kanal beşaryla kaydedildi 3
27	08.01.2021 03:03:03	BeniUpdated	Kanal beşaryla kaydedildi 2
26	08.01.2021 03:02:39	BeniUpdated	Kanal beşaryla kaydedildi 3
25	08.01.2021 03:02:22	BeniUpdated	Kanal beşaryla kaydedildi 2
24	08.01.2021 03:00:20	LogInSuccess	Kullanici girişi başarılı ordel
23	07.01.2021 13:09:45	PowerUp	Uygulama başlatıldı
32	08.01.2021 10:04:36	BackupCreatorFailed	Yedekleme başarısız
21	08.01.2021 10:04:25	LogInSuccess	Kullanici girişi başarılı ordel
20	08.01.2021 10:04:07	PowerUp	Uygulama başlatıldı
19	08.01.2021 10:03:52	BackupCreator	Yedekleme başlandı
18	08.01.2021 10:02:40	BackupCreator	Yedekleme başlandı
17	08.01.2021 10:02:02	BeniUpdated	Kanal beşaryla kaydedildi 4
16	08.01.2021 10:01:45	BeniUpdated	Kanal beşaryla kaydedildi 3
15	08.01.2021 10:00:12	BackupCreator	Yedekleme başlandı

Bar View



Channel Data

Tarih	Kanal 1	Kanal 2	Kanal 3	Kanal 4
08.01.2021 03:31:28	25	52	70	120
08.01.2021 03:31:27	25	52	70	120
08.01.2021 03:31:26	25	52	70	120
08.01.2021 03:31:25	25	52	70	120
08.01.2021 03:31:24	25	52	70	120
08.01.2021 03:31:23	25	52	70	120
08.01.2021 03:31:22	25	52	70	120
08.01.2021 03:31:21	25	52	70	120
08.01.2021 03:31:20	25	52	70	120
08.01.2021 03:31:19	25	52	70	120
08.01.2021 03:31:18	25	52	70	120
08.01.2021 03:31:17	25	52	70	120
08.01.2021 03:31:16	25	52	70	120
08.01.2021 03:31:15	25	52	70	120
08.01.2021 03:31:14	25	52	70	120
08.01.2021 03:31:13	25	52	70	120
08.01.2021 03:31:12	25	52	70	120

Records

Channel Data

Tarih	KanalNo	Değer	Durum
13/1/2006 4	36.1	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	
13/1/2006 4	36.4	OK	
13/1/2006 3	36.2	OK	
13/1/2006 2	36	OK	
13/1/2006 1	36.2	OK	