

EAGLEYE PDR® MULTI-CHANNEL DATA RECORDER MANUAL OF USE / V0.1

0.



Don't worry about it !



EAGLEYE PDR

PDR is a multi-channel data acquisition device. The collected data can be reported with QRD software according to standards such as NADCP, AMS2750, CQI-9.

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HOME PAGE



When the PDR is first opened, we will see the thermocouple page. 15 thermocouple information is displayed. The Pages menu can be accessed via the marked button.







With 15 thermocouples placed in the device to measure the ambient temperature, the measured values are displayed on the chart diagram.At the top of the chart are expressed thermocouple and its colors. The drawing of thermocouples is carried out on the diagram.



CHART

Hovering over the chart shows the time-dependent thermocouple and its values more clearly.



If you want to display data in a certain date range, when the settings are made and approved from the date 3 button above, the data between the two dates are displayed on the diagram.



DATA TABLE



The read data is displayed in a list on this page along with the date.

F	÷	Da	ta T	able	;										
Date	TC1	TC2	тсз	TC4	TC5	TC6	TC7	TC8	TC9	TC10	TC11	TC12	TC13	TC14	TC15
04-03-22 11:10:00	300	100	200	250	350	450	401	501	600	550	700	750	740	731	710
04-03-22 11:09:30	301	101	201	250	350	450	400	500	601	551	700	750	741	730	711
04-03-22 11:09:00	301	101	201	251	350	451	401	500	600	551	701	750	741	730	710
04-03-22 11:08:28	300	100	201	251	351	450	401	501	601	551	700	751	741	731	711
04-03-22 11:08:00	301	100	200	251	350	450	400	501	601	551	700	751	740	730	711
04-03-22 11:07:30	301	100	200	250	350	451	400	500	600	551	701	751	741	730	710
04-03-22 11:07:00	300	100	201	250	350	450	401	501	600	550	700	750	740	730	711
04-03-22 11:06:30	301	100	201	251	350	451	400	501	601	551	701	751	741	731	711

THERMOCOUPLES



The values and specifications of 15 thermocouples are displayed on this page. If a thermocouple property is desired to be changed, it can be updated from the update page by clicking on the relevant thermocouple.



On the following update page, some features of the thermocouple are included. From here, when modified and saved, the changes are displayed by returning to the thermocouple page.

Tc1 Input Offset Tc Offset 0 0 Thickness Min Max
Input Offset Tc Offset 0 Thickness Min Max
0 0 Thickness Min Max
Thickness Min Max
1 0 1820
Tc Type Color Visible
в 🗸 🗹

THERMOCOUPLES

In the list shown below, the appropriate min. and max. temperature values are included.

When selecting the TC type on the update page, the values of the TC type you have selected will come by using this data. Each TC type has a min. and max. temperature values can be adjusted automatically according to the data in this list.

Sensor Tini	Standart	Sica	aklık Aralığı
Sensor Tipi	Stanuart	(°C)	(°F)
Type-B Termokupl (Pt%18Rh-Pt)	IEC584-1	60, 1820	140, 3308
Type-E Termokupl (Cr-Const)	IEC584-1	(-200), 840	(-328), 1544
Type-J Termokupl (Fe-Const)	IEC584-1	(-200), 1120	(-328), 1562
Type-K Termokupl (NiCr-Ni)	IEC584-1	(-200), 1360	(-328), 2480
Type-L Termokupl (Fe-Const)	D1N43710	(-200), 900	(-328), 1652
Type-N Termokupl (Nicrosil-Nisil)	IEC584-1	(-200), 1300	(-328), 2372
Type-R Termokupl (Pt%13Rh-Pt)	IEC584-1	(-40), 1760	104, 3200
Type-S Termokupl (Pt%10Rh-Pt)	IEC584-1	(-40), 1760	104, 3200
Type-T Termokupl (Cu-Const)	IEC584-1	(-200), 400	(-328), 752
Type-U Termokupl (Cu-Const)	DIN43710	(-200), 600	(-328), 1112

OPERATIONS



In order to keep the read data under a record name, an operation record must first be made. This page displays the operations for the record that has been started or finished. If there is none, adding is performed with the insert

₹ ←	Manage Ope	erations 🕒		
Name	Company	Furnace	Start Date	Stop Date

On the Add Operation page, the corresponding fields are populated.

- -15 thermocouples can be selected as desired or all.
- -Temp Type is selected in °C.
- -Duration is specified as the recording minute.
- -The max point value is entered.
- -Deviation tolerance is indicated.

Name		Company	
operation test		Зе	
Furnace		Operator	
furnace1		operator	
Thermocouple S	election Tc3 x Tc4 x Tc5 x		~
Temp Type	Duration	Set Point	Tolerance
temp ()po			

OPERATIONS

The added operation record appears in the list. If the recording has never been started, the start date is not assigned. You need to start registering for dates.

If you want to make corrections on it, update it with the edit **button** next to it; If you want to delete it, the deletion process is performed with the delete **button**.



RECORD



If there is no unsaved operation on the registration page, the selection tool is not displayed on that page. If an operation record is created, the selection tool appears. From here, a registered operation is selected and the thermocouple data recording is initiated.

	Select Operations	~
	-	
ition test	operation test	

The operation information selected here is displayed. Recording starts by pressing the Play **>** button.

operation test		~ D		~~
Start Date	Stop Da	te		
Company	Furnace	2	Operator	
3e	furnac	e1	operator	
Thermocouple Se	lection			
Tc1 x Tc2 x	Tc3 x Tc4 x Tc5	×		
Temp Type	Duration	Set Point	Tolerance	
°C	100	500	10	

RECORD

The date at the time of its launch is assigned to the start date. If you want to view the initiated record live, it can be viewed by going to the chart page with the trend we button. This imaging involves max 2 days.

operation test		~ D		~~
Start Date	Stop Date			
04-03-22 11:46:07	7			
Company	Furnace		Operator	
3e	furnace1		operator	
Thermocouple Sele	ection			
Tc1 x Tc2 x T	C3 x TC4 x TC5 x			
Temp Type	Duration	Set Point	Tolerance	
°C	100	500	10	

RECORD

If the registration is stopped with the stop button, the end date is also assigned. If a flash memory is inserted into the device, the data between the two dates can be transferred as an excel file. With the Trend dutton, the diagram between the two dates is displayed.

operation test		~ D		<u>~</u>
Start Date	Stop Date		-	
04-03-22 11:46:07	04-03-22	2 11:54:48		
Company	Furnace		Operator	
3e	furnace1		operator	
Thermocouple Select	tion			
Tc1 x Tc2 x Tc3	x Tc4 x Tc5 x			~
Тетр Туре	Duration	Set Point	Tolerance	
°C	100	500	10	

The red licon in the upper right is the communication notification with modbus. If it cannot communicate, it is red, and if the communication is positive, it is green.





The page on which the list of users is displayed. To add a new user, it is added with the 😔 add button. If you want to change the existing registration information, you can delete the existing record with the update 🍛 button and the delete 💿 button.

₹ ←	Manage Users	•	
Username	Level	Password	Actions
Admin	100	123	2
	User Add Username		
	Enter username	•	
	Password		
	Password		
	User Level		
	Enter user level		
	Add		



Record

The recording and reading intervals of the device are set in the "Record" section, which is the first menu of the "Settings" page.

Record	물 lp	😤 Wi-fi	① Time	က Update		
	Wi	-Fi				
	Rec	ord Interval				
	30	seconds			~	
	Rea	id Interval				
	5	seconds			×	

Ip Settings

This is the page where the device connection addresses are defined. The address information provided by the device from the ethernet and network is displayed or saved on this page. Adjustments can also be made according to preference with options such as Static or Auto.

₹	Settings		
Record	😤 lp 🎅 Wi-fi	() Time 🕼 (Jpdate
Ethern	iet	Wi	-Fi
O Statio	c 🔿 Auto		Static 🔘 Auto
lp	192.168.1.79	lp	192.168.1.11
Subnet	255.255.255.0	Subr	et 255.255.255.0
Gateway	192.168.1.1	Gate	way 192.168.1.1
		Save	

Wi-Fi

When the device will be connected to a network, the definitions of this network are made from this menu. Enter the Wi-fi information in the corresponding fields and save it

₹ ←	Setting	js				
Record	뭅 Ip	奈 Wi-fi	(Time	ာ Update		
	Wi Nar 3 Pas 3 Cou	-Fi ne e_endustriyel_ ssword eendustriyel_2 intry irkey	muhendislik_5 2021 Save	G	x ~	

Time

It is the page where the time setting of the device is made. In any case, if the time of the device does not go to the equivalent of the current one, correction can be made here.

	Setting	IS			
Record	몲 lp	଼ ₩i-fi	(Time	ာ Update	
	Set Time	2			

Record z Mo Tu We Th Fr Sa 27 28 1 2 3 4 6 7 8 9 10 11	
27 28 1 2 3 4 6 7 8 9 10 11	
6 7 8 9 10 11	5
	12
13 14 15 16 17 18	19
20 21 22 23 24 25	26
27 28 29 30 31 1	2
~ ~ ~	
14 : 44 : 16	
~ ~ ~	

Update

The new version can be checked if the update is coming. With "Check Internet", it is checked whether the device is connected to the internet, and with the new version control, if any, the new version update is made with "Get Updates".

₹ ←	Settings		
C Record	😇 Ip ି Wi-fi	Imme	Update
	Internet Status :	\otimes	Check Internet
	Pdr Client Version :	V1.0.11	
	Pdr Server Version :	V1.0.11	
	Could not check upo	lates	Get Updates

All screens can be monitored by connecting with the device via the WebService feature and any other device on the network (wire, tablet, etc.), without the need for any additional software or settings.





	Chart	2	Э				w12 . br13	
				+1015				
700-		1		-	-	1		
600			-					
500								
400								
300						-		
200-								
100	_	-	-	-		-	-	_
08:31:30	08:56:30 08	41:30 08	46:30 08	51:30 08	56:30 09:	01:30 09	:06:30	09:15:58



EAGLEYE PDR

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