MPI-C-Raport version 1.41



MPI-C-Raport

USER MANUAL

Version: 190319EN



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Before using the software, refer to the instruction manual.

All functions of the software are subject to modifications for the benefit of technical progress.



1 Hardware requirements

minimum:	screen resolution, mode DPI settings operating system RAM	1024 x 768, colour 96 dpi (normal size) WINDOWS 98 256 MB
optimal:	screen resolution, mode DPI settings operating system RAM	1280 x 1024, colour 96 dpi (normal size) WINDOWS XP / Vista / 7 / 8 512 MB or more

2 Log

PI-C-RAPORT ENG	
metronic.pl metronic@metronic.pl	-
MPI-C-RAPORT ENG v1.41 program for data visualisation for: MPI-C, MPI-CN, MPI-CL, MPI-D, MPI-DN	
Program login	
Select username from list: ADMIN	
Enter user password:	
WARNING !!! OK 1. There is different between small and capital letter in password field ('A'' is not equal ''a''). Exit 2. ''user password'' is not ''activation code''. Exit	

Fig. 2.1 Login window (username: ADMIN, password: metronic)

Login: ADMIN Password: metronic

3 **Program registration**

Program in the demo version have all the functionality of the full version, but turn off automatically after approx. 10 min. In addition there is displayed writing "SOFTWARE DEMO VERSION (program needs registration)".

Menu \rightarrow Program \rightarrow Program settings...

The MPI-C-RAPORT ENG	j		
<u>P</u> rogram <u>F</u> iles <u>S</u> el	lection <u>m</u> in/max/average	<u>R</u> eports <u>T</u> ransmission	
Current archive file: (N	lo data file open)		
			_
Licence code:	21591003A0	🖃 Register program (email)	
Activation code:		activation code	

Fig. 3.1 Program registration

4 Adding/delete user, changing the administrator password

 $Menu \rightarrow Program \rightarrow Program \ settings...$

ist of define users.	
ADMIN	User name:
	User password: Add user
	Repeat password:
	Delete users from list
	Mark user on list and then press button to delete selected user from list.
	Delete selected user from list.
	Change program administrator (ADMIN) password
	Current password:
	New password: Change ADMIN password
	Repet new password:

Fig. 4.1 Program settings

5 Analysis and visualization data from computer hard disc

5.1 Information about file

 $\text{Menu} \rightarrow \text{Files} \rightarrow$

Open main archive file... Open totalisers archive file... Open event log file... Open authorization log file...

Menu \rightarrow Files \rightarrow Information about file...

ogram	<u>Files</u> <u>Selection</u> <u>min/max/average</u>	<u>Reports Transmiss</u>	sion					
rent arch	ive file: AR01_002.TXT							
Plik archiwum w formacie 1.00								
Path to data file (diak location):								
D:\Dokum	henty\Programy\MPI-C\RAPURT\pliki_archiwum	VAR01_002.TXT						
ile size [bj	ytes]: 2734389							
evice na	me and version from which archive file comes:	MPI-C v0.30	De	evice address: 01				
	Number of records in archive file:	15614	Se	rial number: 104	450001			
ist of arch	nived process values:		0.0%	D 100%	1			
ist of arch Symbol	nived process values: Opis	Jednostka	Bar 0%	Bar 100%	Тур			
ist of arch Symbol 11.	ived process values: Opis CO zasilanie	Jednostka °C	Bar 0% 20,0	Bar 100% 50,0	Typ Pt100 Pt100	^		
ist of arch Symbol 11. 12.	ived process values: Opis CO zasilanie CO powrót CV/ zasilanie	Jednostka °C °C	Bar 0% 20,0 20,0	Bar 100% 50,0 50,0 80,0	Typ Pt100 Pt100 Pt100			
st of arch ymbol 1. 2. 3.	nived process values: Opis CO zasilanie CO powrót CW zasilanie CW zasilanie	Jednostka °C °C °C °C °C	Bar 0% 20,0 20,0 20,0 20,0	Bar 100% 50,0 50,0 80,0 80,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100			
ist of arch iymbol 11. 12. 13. 14.	nived process values: Opis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temo snalin	Jednostka °C °C °C °C °C °C °C	Bar 0% 20,0 20,0 20,0 20,0 20,0 20,0	Bar 100% 50,0 50,0 80,0 80,0 100.0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100			
ist of arch iymbol 11. 12. 13. 14. 15.	ived process values: Opis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temp. spalin Predkość powietrza	Jednostka °C °C °C °C °C °C °C °C °C °C	Bar 0% 20,0 20,0 20,0 20,0 20,0 20,0 0.0	Bar 100% 50,0 50,0 80,0 80,0 100,0 100,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Rezust			
ist of arch Tymbol 11. 12. 13. 14. 15. 16. 17.	nived process values: Dpis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temp. spalin Prędkość powietrza Ciśnienie czynnika A1	Jednostka °C °C °C °C °C °C °C °C m/s bar	Bar 0% 20,0 20,0 20,0 20,0 20,0 0,0 0,0	Bar 100% 50,0 50,0 80,0 80,0 100,0 100,0 100,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Rezyst. Rezyst.			
ist of arch Symbol 11. 12. 13. 14. 15. 16. 17. 18.	ived process values: Opis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temp. spalin Prędkość powietrza Ciśnienie czynnika A1 Ciśnienie czynnika A2	Jednostka °C °C °C °C °C °C m/s bar bar	Bar 0% 20,0 20,0 20,0 20,0 20,0 0,0 0,0 0,0	Bar 100% 50,0 50,0 80,0 80,0 100,0 100,0 100,0 100,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Rezyst. Rezyst. Rezyst. Rezyst.			
ist of arch Symbol 11. 12. 13. 14. 15. 16. 17. 18. 19.	ived process values: Opis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temp. spalin Prędkość powietrza Ciśnienie czynnika A1 Ciśnienie czynnika A2 Temp. próbki A1	Jednostka °C °C °C °C °C °C °C m/s bar bar bar °C	Bar 0% 20,0 20,0 20,0 20,0 20,0 20,0 0,0 0,0 0	Bar 100% 50,0 50,0 80,0 80,0 100,0 100,0 100,0 100,0 100,0 100,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Rezyst. Rezyst. Rezyst. Pt100 Pt100			
ist of arch 3ymbol 11. 12. 13. 14. 15. 16. 17. 18. 19. 0.	ived process values: Opis CO zasilanie CO powrót CW zasilanie CW cyrkulacja Temp. spalin Prędkość powietrza Ciśnienie czynnika A1 Ciśnienie czynnika A2 Temp. próbki A1 Temp. próbki A2	Jednostka °C °C °C °C °C °C °C m/s bar bar bar °C °C °C	Bar 0% 20,0 20,0 20,0 20,0 20,0 20,0 0,0 0,0 0	Bar 100% 50,0 50,0 80,0 80,0 100,0 100,0 100,0 100,0 100,0 100,0 100,0	Typ Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Rezyst. Rezyst. Rezyst. Pt100 Pt100 Pt100 Pt100 Pt100 Pt100 Pt100			

Fig. 5.1 Window with information about the currently open data file

5.2 Combine data files

 $\mathsf{Menu} \to \mathsf{Files} \to \mathsf{Combine} \ \mathsf{data} \ \mathsf{files} \ldots$

MPI-C-RAPORT ENG			
Program Files Selection min/max/average	<u>R</u> eports <u>T</u> ransmission		
Current archive file: AR01_002.TXT			
Combine data files archive.			
Basic file (primary)			
AR01_002.TXT			
Device name and version from which archive file comes:	MPI-C v0.30	Device address:	01
Number of records in archive file:	15614	Serial number:	10450001
Select file to attach to basic file			
Device name and version from which archive file comes:	MPI-C v0.30	Device address:	01
Number of records in archive file:	15614	Serial number:	10450001
Combining files • Attach to basic file only newer records than the dat • Attach to basic file all data records from selected fil	a records already stored in basic f	ïile.	
Combine files		Operation progress:	0%
Operation statu: Selected file is OK and can be attache	ed to basic data file. Press key	COMBINE FILES	
Logged user ADMIN			

Fig. 5.2 Combine data files

5.3 File control

 $\mathsf{Menu} \to \mathsf{Files} \to \mathsf{Check} \ \mathsf{data} \ \mathsf{in} \ \mathsf{file} \ldots$

MPI-C-RAPORT ENG	
Program Files Selection min/max/average Reports Transi	mission
Current archive file: AR01_002.TXT	
Check data encryption correctness Function allows to check main archive for data encryption correctness. Operation result is information about number of correct and invalid main archive rec If all records in file sign as invalid, this means that all records were correct or file ha is not original main archive file saved by device in internal memory.	ords, with possibility to save selected records to file. s been modified by RAPORT program and file
Number of correct records in archive: 15614	Save correct records to file
Number of invalid records in archive: 0	Save invalid records to file
Function allows to check main archive file for saving continuity. Operation result is information about number of discontinuity periods in main archive In case of finding discontinuity periods in file (lack of records) there is possibility to d will be saved: beginning record and end record of discontinuity period. In case of appearance greater number of discontinuity periods, file will be contain p WARNING!! In special case, when device archive has been working in continuous mode and e newest records, there is possibility of appearance only one discontinuity period. In other cases or in appearance more than one discontinuity period, main archive f	a file, which means lack of records. create file, in which proper number of records. Idest records have been replaced by le is INVALID.
Number of discontinuity preriods in archive: 0	Save discontinuity periods to file
Device identification: MPI-C v0.30, address: 01, Serial No.: 104500	01
EXECUTE	100%
Operation statue Check for archive correctness is complete	
Logged user ADMIN	

Fig. 5.3 Check data in file window

5.4 Data selection

Menu \rightarrow Selection

Find the eldest and the youngest... Sort by time... Find from date to date... Find less than... Find from range... Find outside range... Find greater than...

MPI-C-Raport

MPI-C-RAPORT	ENG							
<u>P</u> rogram <u>F</u> iles	<u>S</u> election <u>m</u> in/max/average <u>R</u> eports <u>T</u> ransmission							
Current archive file:	AR01_002.TXT							
Eldest and youngest data record in file								
Function determine	Function determine time interval, from which data saved in file come (determine beginning and end of archive).							
Eldest data: (beginning)	2010-11-20 12:22:20 Line number: (beginning) 29							
Youngest data: (end)	2010-11-22 07:45:10 Line number: (end) 15642							
	EXECUTE 1	00%						
Operation statu: Se	arching of beginning and ending is complete.							
Logged user ADM	41N							

Fig. 5.4 Search the oldest and youngest data record

The MPI-C-RAPORT ENG							
<u>P</u> rogram	<u>F</u> iles	Selection	<u>m</u> in/max/average	<u>R</u> eports	<u>T</u> ransmission		
Current arch	ive file:	AR01_002.	ТХТ				
Sort data	Sort data records by archiving time						
Data record: Operation re	s from sel sult sorte	ected file will I d records will	be sorted by archiving ti be saved to selected file	me from eldest e.	to youngest.		

Fig. 5.5 Saving sorted by time archive into new file

The The Tense The Tense	
Program Files Selection min/max/average Reports Transmission	
Current archive file: AR01_002.TXT	
Select data / from date (earlier) to date (later)	
Choose DATE and TIME of starting and ending data record. Data records from chosen range will be selected and saved to file.	
BEGINNING: 2010-11-20 • 12:22:20 ÷ END: 2010-11-22 • 07:45:10 ÷	
Number of found records: 0	
EXECUTE 0%	
Operation status	
Logged user ADMIN	

Fig. 5.6 Saving selected time into new file

MPI-C-Raport

页 MPI-C-RAP	ORT ENG					
<u>P</u> rogram <u>F</u>	iles <u>S</u> election	<u>m</u> in/max/average	<u>R</u> eports	Transmission		
Current archive	file: AR01_002.	TXT				
Data selectio	on / data record	s with value less tha	n MIN for se	elected process value		
			<u> </u>	MIN	MÁX	\longrightarrow
Select archiv	ed process value:		lower valu	boundary ue (MIN)		
🔽 01. [°C	:] CO zasilanie		60			_
🗖 02. [°C	:) CO powrót					
🔽 03. [°C	:] CW zasilanie		30			
🗌 🗖 04. [°C) CW cyrkulacja					
🔲 🖂 05. [°C] Temp. spalin					
🔽 06. [m.	/s] Prędkość powie	trza	3			
🔲 🖂 07. [ba	ar] Ciśnienie czynnik	(a A1				
🔲 🖂 08. [ba	ar] Ciśnienie czynnik	(a A2				
🗖 09. [°C] Temp. próbki A1					•
Number of	found records:	0				
		EXECUTE				0%
Operation statu	IS					
Logged user	ADMIN					

Fig. 5.7 Saving values less than specified boundary values into new file

5.5 Determination of extremes

Menu \rightarrow min/max/average

Minutely minimums... Hourly minimums... Daily minimums... Monthly minimums... Minutely maximums... Hourly maximums... Daily maximums... Monthly maximums... Minutely averages... Hourly averages... Daily averages... Monthly averages...

MPI-C-RAPORT ENG	
Program Files Selection min/max/average Reports	Transmission
Current archive file: AR01_002.TXT	
Minimum value / minimal data value in hourly range	
WARNING!	data value 1
 File with data should be sorted by time (menu: selection, function: sort by time). 	
 New data records including data with minimum values from selected period are saved with date and time beginning of selected period. 	data value
	hourly periods
Number of found records: 0	
EXECUTE	0%
Operation status	
Logged user ADMIN	

Fig. 5.8 Saving records with minimum values from consecutive hourly periods into new file

MPI-C-RAPORT ENG	
<u>Program Files Selection min/max/average Reports</u>	Transmission
Current archive file: AR01_002.TXT	
Maximum value / maximal data value in daily range	
WARNING!	data value 1
 File with data should be sorted by time (menu: selection, function: sort by time). New data records including data with maximum values from selected period are saved with date and time beginning of selected period. 	maximum data value
	y daily periods
Number of found records: 0	
EXECUTE	
Logged user ADMIN	

Fig. 5.9 Saving records with maximum values from consecutive daily periods into new file

D MPI-C-RAPOR	T ENG				
<u>P</u> rogram <u>F</u> iles	<u>S</u> election	<u>m</u> in/max/average	<u>R</u> eports	Transmission	
Current archive file	e: AR01_002	2.TXT			
Averaging data	/ averages f	from monthly periods			
WARNING!!				data value 1	
1) File with data s (menu: selection,	hould be sorted function: sort b	d by time by time).			\wedge
2) New data reco values for every p time of first record	rds including d rocess value a in selected pe	ata with counted average are saved with date and rriod.	•	data value	→ time
				monthly periods	
Number of fou	nd records:	0			
		EXECUTE		0%	
Operation status					
Logged user AD	MIN				

Fig. 5.10 Saving records with average values from consecutive monthly periods into new file

5.6 Preparation of reports: graphs

$Menu \rightarrow Reports...$

MPI-C-RAPORT ENG	
<u>Program Files</u> <u>Selection min/max/average</u> <u>Reports Transmission</u>	
Current archive file: AR01_002.TXT	
Archived process values selection to graph	
Select values: SHIFT + left mouse button - group select from mark to mark. CTRL + left mouse button - group select by single mark. Moving values to graph: double click left mouse button moves one value to graph. Button [>>] moves selected values to graph.	
Archived process values in open file: (value symbol + caption from archive file)	ph:
01. [*C] CO zasilanie 02. [*C] CO powrót 03. [*C] CW zasilanie 04. [*C] CW cyrkulacja 05. [*C] Temp. spalin 06. [m/s] Prędkość powietrza 07. [bar] Ciśnienie czynnika A1 08. [bar] Ciśnienie czynnika A2 09. [*C] Temp. próbki A2 11. [%] Wilgotność A1 12. [%] Pred grazłki 13. [A] Prąd grazłki 14. [m] Poziom wody w zb.2 16. [*C] Pomiar na WE16 17. Pomiar na WE17 18. Pomiar na WE18 19. Pomiar na WE18 19. Pomiar na WE19	Show / Hide values Deleting values from graph: select values and press button or double click on value. Delete selected values from graph
Number of values in archive file: 20 Number of selected values on graph: 4	
Press button GRAPH to go to graph with da	ta from archive file.
GRAPH	0%
Operation status	
Logged user ADMIN	

Fig. 5.11 Selection of channel to present on the graph

MPI-C-Raport



Fig. 5.12 Graph window

- Menu \rightarrow Settings \rightarrow Show / Hide values...
- Right-click in the graph area \rightarrow Show / Hide values
- Okno Fig. 5.11
 Show / Hide values...

Settings of valu	ues on grap	h	
show / hide	line colour	valu	ies caption
▼		01.	(°C) CO zasilanie
v		02.	(°C) CO powrót
▼		03.	[°C] CW zasilanie
V		04.	[°C] CW cyrkulacja
▼		05.	[°C] Temp. spalin
		06.	[m/s] Prędkość powietrza
		07.	[bar] Ciśnienie czynnika A1
▼		08.	[bar] Ciśnienie czynnika A2
ОК			Cancel

Fig. 5.13 Settings of values on graph

- Menu → Settings → Graph settings...
- Right-click in the graph area \rightarrow Graph settings...

Graph settings	
Graph lines Link measurement points (line): Type of graph: Graph line thickness: 1	Y axis scale Consider user scale: Maximum Y scale: 100 Minimum Y scale:
Data value points Show value points: ✓ Size of values points: 3 ♀	Split graph on screens Split graph: Number of points on screen: 2000
Graph colours Graph background: Legend, axis, grid:	
OK Cancel	

Fig. 5.14 Graph settings





Fig. 5.15 Graph print preview



5.7 Preparation of reports: tables

Window Fig. 5.12: Menu \rightarrow Data table ...

0 MPI-C-RAPORT	ENG				
<u>R</u> eturn <u>P</u> rint t	able				
Current archive file:	AR	01_002.TXT			
– LEGEND - statu	s (rec	ord)		D - data ·	alue status
H - history archive I D - current data F - data from FIFO I S - totalisers archiv	record memory e recor	y id	83a5 ∦ E ₩ F [- R [C [emergen current b current al input off 	y result equivalent to value 83.5 low 3,6mA ove 22mA ut not ready O or TC failure seeding the range rnal communication error
			Data valu	e from 10	11-20 12:22:20 to 10-11-20 17:55:30
Date time	Stat	02. [°C] CC) 03. [°C] C	∧ 05. [°C]	Tei 🔺
10-11-20 12:22:20	Н	33,1	37,9	30,1	
10-11-20 12:22:30	Н	33,1	37,9	29,9	
10-11-20 12:22:40	Н	33,1	37,9	29,7	
10-11-20 12:22:50	Н	33,1	37,9	29,5	
10-11-20 12:23:00	Н	33,1	37,9	29,3	
10-11-20 12:23:10	Н	33,0	37,9	29,2	
10-11-20 12:23:20	Н	33,1	38,0	29,0	
10-11-20 12:23:30	Н	33,0	38,0	28,8	
10-11-20 12:23:40	Н	33,0	38,0	28,6	
10-11-20 12:23:50	Н	33,0	38,0	28,5	
10-11-20 12:24:00	Н	33,0	38,0	28,5	
10-11-20 12:24:10	Н	32,9	38,0	28,8	
10-11-20 12:24:20	Н	32,9	38,0	29,4	
10-11-20 12:24:30	Н	32,9	38,0	30,0	
10-11-20 12:24:40	Н	32,9	38,0	30,4	
10-11-20 12:24:50	Н	32,8	38,0	31,0	
10-11-20 12:25:00	Н	32,8	38,0	31,8	
	4161	00.2	004	00.4	
Loggea user ADM	1111				

Fig. 5.16 Data table window



Window Fig. 5.16 Menu \rightarrow Print table...



Fig. 5.17 Print data table preview



6 Remote reading of measurement data

Menu \rightarrow Transmission...

T MPI-C-RAPORT ENG		
Program Files Selection min/max/ave	rage <u>R</u> eports <u>T</u> ransmission	
Device address: OTHER ADDRESS Other address: 03	list of the devices	
Read current values	Internal memory	
Reading	Status Control	
Read registers from device	Read archive main archive file	
Events log	Read other files event log file autorization log file	

Fig. 6.1 "Transmission..." window

For each device from the list program separately saves settings of transmission, graphs etc.

6.1 Transmission settings

Windows Fig. 6.7 ... Fig. 6.15: Menu \rightarrow Transmission settings...

mpi-c-r	APORT ENG				
Return	Transmission settings	Read current values	Read registers	Internal memory	
Device	address: 03				
Method	of transmission data —				
⊙ co	M <-> RS485 (ASCII)	C MODBU	S TCP		
O TC	P/IP <-> RS485 (ASCII)				
- Transmi	ssion data settings port (COM <-> RS485		7	
Port:	COM1	•			
Baud rat	e: 9600	•			
Parity:	even	•			
CRC tra	nsmition control: 🔽				
Additiona and rece	al delay between sending requeiving answer from device.	est 0 [sec	cond]		
Typically	Osec, increasing value may b	e need for ethernet converte	ers (ie. conv485E)		

Fig. 6.2 RS485 transmission settings, ASCII protocol

MPI-C-Raport

T MPI-C-RAPORT ENG				
<u>Return</u> <u>Transmission settings</u> R <u>e</u> a	d current values	Re <u>a</u> d registers	Internal memory	
Device address: 03				
Method of transmission data				
C COM <-> RS485 (ASCII)	MODBU	S TCP		
TCP/IP <→ RS485 (ASCII)				
Transmission data settings TCP/IP <->	RS485			
IP Address: 192.168.2.100				
Port: 502				
Additional delay between sending request and receiving answer from device.	0 [8]			

Fig. 6.3 RS485 with RS485 / Ethernet converter transmission settings, ASCII protocol

T MPI-C-RAPORT ENG		
<u>Return Transmission settings</u> Read of	current values <u>I</u> nternal memory	
Device address: 03		
Method of transmission data		
C COM <-> RS485 (ASCII)	MODBUS TCP	
○ TCP/IP <-> RS485 (ASCII)		
Transmission data settings MODBUS TC	Ρ	
IP Address: 192.168.2.100		
Port: 502		
Additional delay between sending request and receiving answer from device.	0 [\$]	

Fig. 6.4 Ethernet transmission settings, Modbus TCP protocol



6.2 Visualisation settings

Windows Fig. 6.9 button Visualization settings (only ADMIN)... (available only for admin; function requires initial reading data from the device).

Visualization settins
Visualization systems settings Analog inputs and totalisers (0120) Math channels and totalisers (2136)
▼ Turn on / off visualization for system A
Image (BMP or JPG) C:\Dokumenty\visualization.jpg
T (Turn on Loff viewelingtion for eachern D)
Image (BMP or JPG)
Turn on / off visualization for system C
Image (BMP or JPG)
Turn on / off visualization for system D
Image (BMP or JPG)
Turn on / off visualization for system E
Image (BMP or JPG)
Turn on / off visualization for system F
Image (BMP or JPG)
OK Cancel

Fig. 6.5 Selection of graphic used in visualization

Turn on c	r huns e	off an a	- log inc	ute or	totalica	re free		1	
. Tumonic 2. Type inpu	it capti	on (up	to 20 i	charac	ters, d	lo not i	use semicolon in caption).		
	Α	в	с	D	E	F	Caption	•]
08	OFF	ON	OFF	OFF	OFF	OFF	08. analog input value		
Tot1:08	OFF	ON	OFF	OFF	OFF	OFF	Tot1:08. totaliser		
Tot2:08	OFF	ON	OFF	OFF	OFF	OFF	Tot2:08. totaliser		
09	OFF	OFF	OFF	ON	OFF	OFF	09. analog input value		
Tot1:09	OFF	OFF	OFF	ON	OFF	OFF	Tot1:09. totaliser		
Tot2:09	OFF	OFF	OFF	ON	OFF	OFF	Tot2:09. totaliser		
10	OFF	OFF	OFF	OFF	OFF	OFF	10. analog input value		
Tot1:10	OFF	OFF	OFF	ON	OFF	OFF	Tot1:10. totaliser		
Tot2:10	OFF	OFF	OFF	ON	OFF	OFF	Tot2:10. totaliser		
11	ON	OFF	OFF	OFF	OFF	OFF	boiler A [*C]		
Tot1:11	OFF	OFF	OFF	OFF	OFF	OFF	Tot1:11. totaliser		
Tot2:11	OFF	OFF	OFF	OFF	OFF	OFF	Tot2:11. totaliser		
12	OFF	OFF	OFF	OFF	OFF	OFF	12. analog input value		
Tot1:12	ON	OFF	OFF	OFF	OFF	OFF	boiler B [*C]		
Tot2:12	OFF	OFF	OFF	OFF	OFF	OFF	Tot2:12. totaliser		
13	OFF	OFF	OFF	OFF	OFF	OFF	13. analog input value	-	
				-		-			4

Fig. 6.6 Selection of channels displayed in particular visualization systems (A, B ... F)

6.3 Odczyt wyników bieżących

Window Fig. 6.1 button

Reading...

• Windows Fig. 6.10...Fig. 6.15: Read current values...

Ф м	MPI-C-RAPORT ENG										
F	Read data from device, transmission period: 5 [seconds] synchronization RTC Reading counter: 2 START STOP										
ATA	Name, version, device address: MPICv129 01 Data status: D - current reading										
	Date: 15-05-28 Time: 13:50:36 NOT.										
RAP											
0	j values totalisers values + totalisers										
ē	06	49,1	Tot1:06		Tot2:06		26	Tot1:26 ^			
IZ	07	49,2	Tot1:07		Tot2:07		27	Tot1:27			
M	08	48,1	Tot1:08		Tot2:08		28	Tot1:28			
Š	09	48,7	Tot1:09		Tot2:09		29	Tot1:29			
_	10	46,7	Tot1:10		Tot2:10		30	Tot1:30			
	11 48,6 Tot1:11 Tot2:11 31						Tot1:31				
	12	91,3	Tot1:12		Tot2:12		32	Tot1:32			
	13	48,3	Tot1:13		Tot2:13		33	Tot1:33			
	14	46,7	Tot1:14		Tot2:14		34	Tot1:34			
	15	47,0	Tot1:15		Tot2:15		35	Tot1:35			
	16	49,3	Tot1:16		Tot2:16		36	Tot1:36			
	17	4	Tot1:17	00000000.37	Tot2:17	00000000182					
	18	526	Tot1:18	00023907.72	Tot2:18	000023907.7		-			
	•										
Г	LEGE	ND - data value s	tatus								
	83a5	emergency result e	equivalent to va	alue 83.5	E current o	over 22mA					
		input not ready			R result or	ut of range -9999 1	99999				
	F	RTD or TC failure			C failure, r	no communication w	ith measurement proce	essor			
Oper	ation s	tatu: Data have bee	n read from	device (periodical	reading).						
Logo	jed us	er ADMIN									

Fig. 6.7 Reading current value - table

MPI-C-Raport



Fig. 6.8 Reading current value - graph

MPI-C-Raport



Fig. 6.9 Reading current values - visualization

6.4 Reading from device registers

- Window Fig. 6.1 button
 Events log...
- Windows Fig. 6.7 ... Fig. 6.9 and Fig. 6.11...Fig. 6.15: Menu → Read registers → Events log...

D MPI-C-R	APORT ENG				
<u>R</u> eturn	Transmission settings	Read current values	Re <u>a</u> d registers	Internal memory	
Beading	event log register				
Beading	et E00 events les recorded by	, devies			
Data come	st 500 events log recorded by trom device register, not from) device. Dinternal memory			
D'did Come		ninoing.			
	Start reading	Stop reading			
Number of	read and saved event log rec	ords: 0			
		,			
				Reading progress	
				recomy progress	
				0%	

Fig. 6.10 Saving last 500 events logs recorded by device into file (unavailable in case of Ethernet/Modbus TCP transmission)



- Window Fig. 6.1 button
- Windows Fig. 6.7 ... Fig. 6.10 and Fig. 6.12... Fig. 6.15: Menu \rightarrow Read registers \rightarrow Authorization log...

T MPI-C-RAPORT ENG				
<u>Return</u> <u>T</u> ransmission settings	Read current values	Re <u>a</u> d registers	Internal memory	
Reading autorization log register Reading last 500 autorization log record Data come from device register, not fro	led by device. n internal memory.			
Start reading	Stop reading			
			Reading progress	
			0%	

Fig. 6.11 Saving last 500 authorization logs recorded by device into file (unavailable in case of Ethernet/Modbus TCP transmission)

6.5 Reading data from internal memory

- Window Fig. 6.1 button
 Status...
- Windows Fig. 6.7... Fig. 6.11 and Fig. 6.13... Fig. 6.15: Menu \rightarrow Internal memory \rightarrow Status...

	Reading status and information about archive file
SAVING	archive state
11428560	number of available records
146622	number of saved records
146622	number of saved records after usage indicator reset
146622	last saved record, number of last saved record (counted from the beginning of file).
173	record size, number of ASCII characters in archive record
15-03-09 11:41:53	date and time last reset usage indicator
15-05-11 09:51:20	date and time the eldest archive record
15-05-28 15:50:00	date and time the youngest archive record
18-12-24 09:33:03	date and time estimated filling up of archive
Internal memory not emp	internal memory state
	internal memory name
2098921472	internal memory capacity in bytes

Fig. 6.12 Reading status and information about memory and archive file



- Window Fig. 6.1 button
 Read archive...
- Windows Fig. 6.7 ... Fig. 6.12 and Fig. 6.14... Fig. 6.15: Menu \rightarrow Internal memory \rightarrow Read archive...

MPI-C-RAPORT ENG				
turn <u>T</u> ransmission settings R <u>e</u> ad	current values R	Re <u>a</u> d registers	Internal memory	
Reading archive procedure: 1. Read da 2. Set STA 3. Start rea	ate of first and last data i RT and END date of pe iding archive.	record in archive. eriod in archive to	read.	
Information about date range of archive in inte	ernal memory			
······	Date of first record in arc	chive:	Date of last record in archive:	
Kead date of first and last record	15-05-11 09:51:20		15-05-28 15:52:30	
Select DATE and TIME first and last record of BEGIN: 2015-05-11	of data. Records from se and written to se Stop reading archi	elected period will elected file. END: [be read from device archive (internal me 2015-05-28 💌 15:52:30 🛟	emory)
Number of received and written records: U			Progress of reading ar	chivo
			0%	

Fig. 6.13 Reading data from Main archive

Read other files...

- Window Fig. 6.1 button
- Windows Fig. 6.7 ... Fig. 6.13 and Fig. 6.15: Menu \rightarrow Internal memory \rightarrow Read other files...

Tanamasion settings	Read current values	Re <u>a</u> d registers	Internal memory	
eading file procedure (event log	file, autorization log fil	e, totalisers arch	ive file):	
Select available file in internal memory	internal memory (nie size). to read.			
Start reading file.				
Read information about files	1			
]			
Select file to read in internal memory (fil	e size in bytes)			
 event log file (7827) 				
 authorization log file (1182) 				
C totalisers archive file (1)				
Read file				
Start reading	Stop readi	ng		
Size of read and save data from devic	e: 0		Progress of reading file	
			0%	
			• • •	

Fig. 6.14 Read files (unavailable in case of Ethernet/Modbus TCP transmission)



6.6 Archive commands

- Window Fig. 6.1 button
 Control...
- Windows Fig. 6.7 ... Fig. 6.14: Menu \rightarrow Internal memory \rightarrow Control...

MPI-C-RAPORT ENG	
Return Transmission settings Read current values Read registers Internal memory	
Archive control functions are available only for users possessing proper rights and password. Proper rights are given by ADMIN user in device setting.	
START archiving	
STOP archiving	
Functions create new archive file in internal memory, but DO NOT START ARCHIVING automatically.	
New archive file Create new archive file without deleting internal memory.	
III WARNING III ERASE + New archive file Creating new archive file in internal memory with DELETING existing files. All data will be LOST PERMANENTLY.	
Reset usage indicator Reset usage indicator (concern only save with overwrite).	
Operation status	
Logged user ADMIN	

Fig. 6.15 Archive commands (unavailable in case of Ethernet/Modbus TCP transmission)



7 Entity launching the product on European Union market

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