AR200 Two-channel data recorder





Data precentation

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13:46:38 PT 22.05.2009	N2 .
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Serwer WWW

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	APAR www.apar.at
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- measurement and recording of temperature and other physical quantities (humidity, pressure, level, speed, etc.) converted into a standard electrical signal (0/4÷20mA, 0÷10V, 0÷60mV, 0÷850 Ω)
- 2 universal measuring inputs not electrically isolated (thermoresistance, thermocouple and analogue)
- 2 alarm/control outputs
- saving data in a standard text file stored in the recorder's internal memory, SD card USB memory (memory stick) in FAT system
- serial interface USB, RS485 (MODBUS-RTU) and Ethernet (10base-T, TCP/IP)
- Web server for work with any web browser, the site contains information about measurements, status of outputs, recording, etc.
- option of transferring archive and configuration data on SD card, USB memory or using the USB port of a computer or via EtherNet
- graphic LCD, 128x32 points, monochrome with backlit (option of assigning each measurement channel with different backlight brightness)
- graphic and text methods of presenting the measured values
- displaying measurement data in a single- and two-channel mode
- internal real time clock with a battery backup power supply
- built-in 24Vdc/50mA power supply adapter for supplying on-site transducers
- compensation of line resistance for resistance sensors
- E temperature compensation of thermocouple cold ends (automatic or fixed)
- included free software enabling graphic or text representation of recorded results and configuration of parameters
- programmable inputs, indication ranges, alphanumeric description of measurement channels, options of recording, alarms, display, communication, access and other configuration parameters
- access to configuration parameters is protected by the user's password
- methods for configuring parameters:
 - via membrane keyboard (IP65) located on the front panel of the device
 - via USB or RS485 interface and a computer program (Windows XP/7/8/10)
 from the configuration files saved on SD/MMC card or USB memory
 - Itolii the configuration mes saved on SD/MINIC card of OSD memor
- available data protection against unauthorized copying and modification (checksum, authorization request for SD card and USB memory)
- possibility to differentiate archives from many recorders of the same or similar type by assigning individual identification numbers (ID)
- signalling the presence of SD and USB memory and file operations
- saving data until the memory is full, signalling full memory
- option of manual updating the recorder firmware
- high accuracy and immunity to interference

Contents of set:

- recorder
- USB cable for connection to computer, length 2m
- CD with drivers and software (Windows 2000/XP/Vista/7)
- user manula
- warranty card

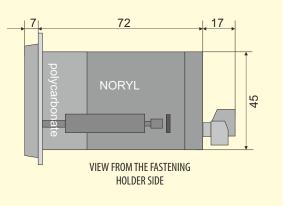
Accessories:

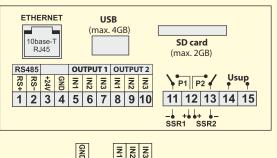
- SD memory card (2GB)
- SD / MMC card reader
- USB memory (2GB)

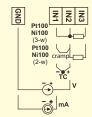
Technica	al data			
Universal inputs (programmable):		grammable):	measurement ranges	
- Pt100 (RTD, 3- or 2-wire)		wire)	-200 ÷ 850 °C	
- Ni100 (RTD, 3- or 2-wire)		wire)	-50 ÷ 170 °C	
- thermocouple J (TC, Fe-CuNi)		e-CuNi)	-40 ÷ 800 °C	
- thermocoupleK (TC, NiCr-NiAl)		liCr-NiAl)	-40 ÷ 1200 °C	
- thermocouple S (TC, PtRh 10-Pt)		PtRh 10-Pt)	-40 ÷ 1600 °C	
- thermocouple B (TC, PtRh30PtRh6)		PtRh30PtRh6)	300 ÷ 1800 °C	
- thermocouple R (TC, PtRh13-Pt)		PtRh13-Pt)	-40 ÷ 1600 °C	
- thermocouple T (TC, Cu-CuNi)		ū-CuNi)	-25 ÷ 350 °C	
- thermocouple E (TC, NiCr-CuNi)		NiCr-CuNi)	-25 ÷ 850 °C	
- thermocouple N (TC, NiCrSi-NiSi)		NiCrSi-NiSi)	-35 ÷ 1300 °C	
- courrent (Rwe = 110Ω)		0 Ω)	0/4 ÷ 20 mA	
- voltage (Rwe = $250 \text{ k}\Omega$)		(Ω)	0 ÷ 10 V	
- voltage (Rwe > 2 M Ω)		2)	0 ÷ 60 mV	
- resistanc	e (3- or 2-wi	re)	0 ÷ 850 Ω	
Number o	of measure	nent inputs	2	
Response	time (10÷9	90%)	1 ÷ 10 s (programmable)	
Resistanc	e of leads (RTD, Ω)	$Rd < 25 \Omega$ (for each line)	
Resistanc	e current (F	RTD, Ω)	~550 µА	
Processin	g errors (at	25°C ambient temperat	ure):	
- basic		- forRTD, mA, V,mV, Ω	0,1 % of measuring range ± 1 digit	
		- for thermocouple	0,2 % of measuring range ± 1 digit	
- additiona	al for thermo	couples	< 2 °C (cold ends temperature)	
- additiona	al caused by	amb. temp. changes	< 0,005 % of input range /°C	
Resolution of measured temperature		red temperature	0,1 °C	
			0,1 C	
Communi		- USB (type A4)	- subordinate mode drivers for Windows 2000/XP/Vista/7	
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Communi			- subordinate mode drivers for Windows 2000/XP/Vista/7	
Communi		- USB (type A4)	subordinate mode drivers for Windows 2000/XP/Vista/7 overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no	
Communi interface		- USB (type A4) - RS485 - EtherNet (option)	subordinate mode drivers for Windows 2000/XP/Vista/7 overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP,	
Communi interface Period of	cation data record	- USB (type A4) - RS485 - EtherNet (option)	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s	
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Communi interface Period of Data men - internal	cation data record	- USB (type A4) - RS485 - EtherNet (option) ling platile, write up to 18 m	 - subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) Illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements 	
Communi interface Period of Data men - internal - SD/MMC	cation data record nory (non-ve	- USB (type A4) - RS485 - EtherNet (option) ling platile, write up to 18 m	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) 10 illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16,	
Communi interface Period of Data men - internal - SD/MMC - external	cation data record nory (non-ve external car	- USB (type A4) - RS485 - EtherNet (option) ling olatile, write up to 18 m d (pendrive)	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16,	
Communi interface Period of Data men - internal - SD/MMC - external Real-time	data record data record nory (non-ve external car	- USB (type A4) - RS485 - EtherNet (option) ing olatile, write up to 18 m d ((pendrive)	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) Illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4	
Communi interface Period of Data men - internal - SD/MMC - external Real-time	cation data record nory (non-vi external car USB memory e clock (RTC	- USB (type A4) - RS485 - EtherNet (option) Iing Dolatile, write up to 18 m d ((pendrive)) Don tick) - relay	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery	
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Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic LI Power	cation data record nory (non-ve external car USB memory clock (RTC 2 with comm	- USB (type A4) - RS485 - EtherNet (option) Iing Dolatile, write up to 18 m d ((pendrive)) Don tick) - relay	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) 10 illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery SA / 250V~ (for resistive loads), SPST transistor type NPN OC, 24V, internal resistance 850 Ω 10	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic L1	cation data record nory (non-ve external car USB memory clock (RTC 2 with comm	- USB (type A4) - RS485 - EtherNet (option) Iing Jolatile, write up to 18 m d ((pendrive)) Ion tick) - relay - SSR (op.)	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) Illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN OC, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic LU Power supply	cation data record nory (non-w external car USB memory clock (RTC) 2 with comr CD display - 230Vac - 24Vac/dc	- USB (type A4) - RS485 - EtherNet (option) Iing Jolatile, write up to 18 m d ((pendrive)) Ion tick) - relay - SSR (op.)	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RI45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) 10 illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN 0C, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness 85 ÷ 260 Vac/ 5VA 128x32 points, 73x19 mm, with adjustable backlight brightness	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic L0 Power supply Power sup	cation data record nory (non-w external car USB memory clock (RTC) 2 with comr CD display - 230Vac - 24Vac/dc	- USB (type A4) - R5485 - EtherNet (option) ling olatile, write up to 18 m d d ((pendrive)) ion tick) - relay - SSR (op.) (option) transmitters	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RI45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) 10 illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN 0C, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness 85 ÷ 260 Vac/ 5VA 20 ÷ 50 Vac/ 5VA, 22 ÷ 72 Vdc/ 5W	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic LI Power supply Power sup	data record nory (non-w external car USB memory clock (RTC 2 with comr 2 display - 230Vac - 24Vac/dc pply to filec	- USB (type A4) - RS485 - EtherNet (option) ling olatile, write up to 18 m d d ((pendrive)) ion tick) - relay - SSR (op.) (option) I transmitters ditions	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN 0C, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness 85 ÷ 260 Vac/ 5VA 20 ÷ 50 Vac/ SVA, 22 ÷ 72 Vdc/ 5W 24Vdc / 50mA	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic LI Power supply Power sup	cation data record nory (non-ver- external car- USB memory clock (RTC) 2 with common - 230Vac - 24Vac/dc apply to filed erating con environmen	- USB (type A4) - RS485 - EtherNet (option) ling olatile, write up to 18 m d d ((pendrive)) ion tick) - relay - SSR (op.) (option) I transmitters ditions	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RJ45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN OC, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness 85 ÷ 260 Vac/ 5VA 20 ÷ 50 Vac/ 5VA, 22 ÷ 72 Vdc/ 5W 24Vdc / 50mA 0 ÷ 50°C, <100 %RH (non-condesing)	
Communi interface Period of Data men - internal - SD/MMC - external Real-time Outputs (2 Graphic LU Power sup Rated ope Working e Protection Weight	data record nory (non-w external car USB memory ectock (RTC 2 with comm common 2 avith comm 2 avith comm common 2 avith comm common 2 avith comm common como	- USB (type A4) - RS485 - EtherNet (option) ling olatile, write up to 18 m d d ((pendrive)) ion tick) - relay - SSR (op.) (option) I transmitters ditions	- subordinate mode drivers for Windows 2000/XP/Vista/7 - overriding mode host, support for USB memory (pendrive) protocol MODBUS-RTU, SLAVE, bitrate 2,4 ÷ 115,2 kbit/s, format 8N1, no galvanically separated 10base-T, RI45, www server, protocol TCP/IP: DHCP, NetBIOS, ICMP, UDP, TCP, data transfer approx. 10 kB/s programmable from 1s to 8 hours (1) 10 illion measurements for 2 channels and 1GB memory): 4MB, FLASH type, FAT12 file system, up to 72 thousand files measurements for 2 channels FAT16, FAT32, maximum size 2GB, recommended size ≤ 1GB and FAT16, connector with ejector FAT16, FAT32, maximum size 4GB, recommended size ≤ 1GB and FAT16, connector type A4 quartz, include leap years, supporting the CR1220 lithium battery 5A / 250V~ (for resistive loads), SPST transistor type NPN 0C, 24V, internal resistance 850 Ω 128x32 points, 73x19 mm, with adjustable backlight brightness 85 ÷ 260 Vac/ 5VA 20 ÷ 50 Vac/ 5VA 20 0 ÷ 50°C, <100 %RH (non-condesing)	

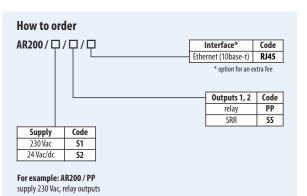
Fixing methods panel, grips on the side of the enclosure $96 \times 48 \times 79$ mm Dimensions

Panel window $92 \times 46 \text{ mm}$ Material self-extinguishing polycarbonate, NORYL 94V-0









(1) – minimum recording period of 1s is always possible for internal memory. For USB memory (pendrives) and SD cards the minimum guaranteed (even) registration period can be up to several seconds and depends on the size of available memory, file system, file size archive, and manufacturer (eg for SD cards with size ≤ 256MB, FAT16 and USB memory ≤ 1GB, FAT16 1s write period is possible, tested SanDisk, GOODRAM, Kingston and other memory) as wells a the FHEMPAI interface archivity (g) of DC data with size S 2 Down, Fin To and DC an inferior S and C, Fin To TS where perior memory) as well as the EtherNet interface activity.
 (g) -for LCD display: PN-EN 61000-6-1, details in the technical data in the instruction manual

- emission

acc. to PN-EN 61000-6-2

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