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CHRONOS METER TODAY



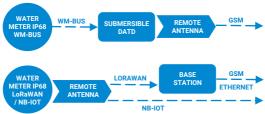
CHRONOS METER ADVANTAGES

DEVELOPMENT AND PRODUCTION IN RUSSIA TIGHT DELIVERY TIME FREE HARDWARE AND SOFTWARE TESTING FREE 24/7 TECH SUPPORT AND SOFTWARE UPDATES 100% INTEGRATION WITH THIRD PARTY SOFTWARE AND HARDWARE



COMPLEX SOLUTIONS







SOFTWARE

THE COMPANY HAS DEVELOPED A SERIES OF SOFTWARE PRODUCTS FOR PROCESS AUTOMATION:

- COLLECTION AND PROCESSING OF DATA FROM METERING DEVICES;
- ENSURING THE OPERABILITY OF THE UTILITY INFRASTRUCTURE;
- SETTLEMENTS WITH SUBSCRIBERS.

SOFTWARE PACKAGE «CHRONOS»

PC «CHRONOS» IS DESIGNED FOR DISPATCHING:

- COLLECTING AND PROCESSING DATA FROM METERING DEVICES;
- ENSURING THE OPERABILITY OF THE UTILITY INFRASTRUCTURE.



- Collection of readings from metering devices, event sensors
- Remote resource restriction
- Emergency monitoring
- Data storage
- Generating custom reports
- Integration with related software products
- Open API

SOFTWARE PACKAGE «BILLING»

PC «BILLING» IS DEVELOPED TO AUTOMATE PAYMENTS WITH SUBSCRIBERS AT A NEW TECHNOLOGICAL LEVEL



- Maintaining a database of personal accounts with the necessary data set
- Maintaining a database of contracts and accounting points
- Accounting for accruals, payments and debts
- Collection of payments
- Debt recovery
- Business planning and management reporting



APARTMENT WATER METERS WITH WIRED / RADIO INTERFACES

Contraction of the second s	INTERFACE RS-485 M-Bus	NB-IoT LoRaWAN wM-Bus
Strate Anna Garden	Dn Dn15 Dn20	MC B C
	BOX	WARRANTY
	IP54	60 mo.

- Simplicity of setting up and exploitation
- Open exchange protocol (compatible with leading manufacturers of devices and software)
- Extended archive of indications and emergency situations
- Fixation of external magnetic field impact
- Determining the flow direction
- Built-in check valve

WATER METERS FROM IP68 FOR FLOODED WELLS

	INTERFACE	NB-IoT LoRaWAN wM-Bus
	Dn Dn15 Dn20	MC B C
	BOX IP68	WARRANTY 60 mo.

Used to build data collection systems from flooded wells

- Remote antenna up to 5 meters
- Open exchange protocol (compatible with leading manufacturers of devices and software)
- Extended archive of indications and emergency situations
- Fixation of external magnetic field impact
- Determining the flow direction
- Built-in check valve



APARTMENT WATER METERS ULTRASONIC

	INTERFACE RS-485 M-Bus	NB-IoT LoRaWAN wM-Bus
CUETWEE ROLLIN THE THAN STOCOGO	Dn Dn15 Dn20	MC B C
	BOX IP54	WARRANTY
	IP54	60 mo.

- Simplicity of setting up and exploitation
- Open exchange protocol (compatible with leading manufacturers of devices and software)
- Extended archive of indications and emergency situations
- · Fixation of external magnetic field impact
- Determining the flow direction
- Built-in check valve

READING READERS FOR MECHANICAL WATER METERS

	INTERFACE	NB-IoT LoRaWAN
LORA: ОСНОЛОСЯ МЕТЕЯ Считыватель показаний счетчика воды LPWAN-N	ANTENNA I-ANT	MC B C
Сделано в России	ARCHIVE 14 yr.	WARRANTY 60 mo.

Installed on apartment water meters with a modular disk (without an interface for transmitting readings).

- Fixation of accidents (leakage, breakthrough, dismantling of the reader)
- Extended archive of indications and emergency situations
- Fixation of external magnetic field impact
- Determining the flow direction



INDUSTRIAL MULTI-JET WATER METERS WITH PULSE AND DATA MODULE



- On request, complete with non-return valve and installation kit
- Version M for immersion in water
- Fixation of external magnetic field impact
- Simplicity of setting up and exploitation
- Extended archive of indications and emergency situations
- Open exchange protocol (compatible with leading manufacturers of devices and software)

INDUSTRIAL TURBINE WATER METERS WITH PULSE AND DATA MODULE

	INTERFACE O-PUL RS-485 M-Bus	NB-loT LoRaWAN wM-Bus
	Dn Dn50- Dn150	MC A-C
	BOX IP54 IP68	WARRANTY 54 mo.

Designed for measuring the volume of cold water: pipelines, apartment buildings, industrial facilities (enterprises) with high flow rates.

- Simplicity of setting up and exploitation
- Extended archive of indications and emergency situations
- Open exchange protocol (compatible with leading manufacturers of devices and software)



APARTMENT HEAT METERS WITH WIRED / RADIO INTERFACES



- There is a modification with 4 pulse inputs for connecting water meters with a pulse output
- Resistant to magnetic fields
- Self-diagnostics function
- Open exchange protocol (compatible with leading manufacturers of devices and software)
- Extended archive of indications and emergency situations

HEAT DISTRIBUTION METERS WITH RADIO INTERFACES

	INTERFACE	NB-IoT LoRaWAN
DOBNOM MERE ((+	BOX IP54	Тмах 105°С
	CHECKING 10 yr.	WARRANTY 60 mo.

The heat energy distributor meter (URTE) is installed on heating equipment (radiators and convectors) in systems in which heat meters cannot be installed.

By measuring the temperature differences between the radiator itself and the external environment, it determines the amount of heat generated. The use of URTE is most effective in metering systems for thermal energy consumption in apartment buildings in the presence of building metering devices.



APARTMENT COLD METERS WITH WIRED / RADIO INTERFACES



- Resistant to magnetic fields
- Self-diagnostics function
- Simplicity of setting up and exploitation
- Open exchange protocol (compatible with leading manufacturers of devices and software)
- Extended archive of indications and emergency situations

GAS METERS ULTRASONIC / JET WITH RADIO INTERFACES

	INTERFACE	NB-IoT LoRaWAN wM-Bus
	Dn Dn15- Dn32	Qn 1,6- 6,0
	MC 1 1,5	WARRANTY 36 mo.

- In operation, meters are not a source of noise, electromagnetic interference, vibration and gas pollution
- Fixation of external magnetic field impact
- Leaks and ruptures fixation
- Temperature control inside the counting mechanism
- Charge control of the built-in battery
- Open exchange protocol (compatible with leading manufacturers of devices and software)



PULSE COUNTERS WITH WIRED INTERFACES

	OUTPUT	RS-485 M-Bus
	INPUT I-PUL 2 - 16	POWER I-POW 12 лет
CONTRACTOR OF	BOX DIN IP65	LIFETIME 12 yr.

Count the number of pulses coming from several pulse meters, followed by data transmission via wired interfaces.

- Modifications available with connection according to the NAMUR scheme
- Operation in the absence of external power supply
- Open exchange protocol
- Remote configuration and software update
- Entered in the register of measuring instruments

PULSE COUNTERS WITH RADIO INTERFACES

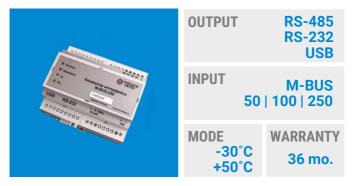
	OUTPUT _{GSI} wM-Bus	M NB-IoT LoRaWAN
	INPUT I-PUL 4 - 16	POWER I-POW E-POW
	BOX DIN IP65 IP68	ANTENNA I-ANT E-ANT SMA

Count the number of pulses coming from several pulse meters, followed by data transmission via radio interfaces.

- IP68 version available (for flooded wells)
- Increased depth of non-volatile archive
- Open exchange protocol
- Remote configuration and software update
- Entered in the register of measuring instruments



INTERFACE CONVERTERS



Interface converters are designed to convert signal levels of the M-Bus interface into signal levels of RS-232, RS-485 and USB interfaces.

- Design variants 150, 250, 500 мА
- Short circuit protection
- Easy to set up
- Works with any types of metering devices

MODEMS

	OUTPUT	GSM
	INPUT	RS-485 RS-232 CAN
	MODE -40°C +70°C	BOX DIN IP53

Modems are designed to collect information from metering devices and transmit data to the server.

- Design variant with RS-485 (до 32 devices)
- Design variant with CAN (до 32 devices)
- Data buffers for systems with "three-wire" interface (RxD, TxD)
- Getting in touch on a set schedule
- Operation in transparent channel mode
- Remote configuration and software update



DEVICES DATA COLLECTION AND TRANSMISSION

	OUTPUT GSM NB-IoT Ethernet wM-Bus LoRaWAN	
	INPUT I-PU CAN SL	
	BOX DIN P65 IP68	WARRANTY 60 mo.

Designed for automated collection, accumulation of readings from metering devices and data transfer to the server.

- IP68 version available (for flooded wells)
- Modifications available with connection according to the NAMUR scheme
- Presence of a case opening detector
- Open exchange protocol (compatible with leading manufacturers of devices and software)

AUTOMATION SHIELDS

	OUTPUT	GSM Ethernet wM-Bus
	INPUT I-PU CAN	
	BOX P-BOX M-BOX	ANTENNA E-ANT SMA

The automation panel is designed to collect information from resource metering devices and transfer data to the server. Automation shield includes Device data collection and transmission, M-Bus interface converter, power supply.

- Presence of a case opening detector
- Подключение by RS-485 up to 750 devices
- Design variant with M-Bus (up to 500 devices)
- Design variant with CAN (up to 110 devices)
- Open exchange protocol (support for more than 350 devices)



BASE STATIONS

	OUTPUT	GSM Ethernet
Oricos sum	INPUT	LoRaWAN 8
	MODE -40°C +70°C	BOX IP55

Base stations are designed to collect readings from metering devices and telecommunications equipment via radio channels and transmit data to the server.

- POE adapter included
- InDoor version available (for indoor installation)
- Open exchange protocol (compatible with leading manufacturers of devices and software)

ANTENNAS



Antennas are designed to enhance the reception/transmission of signals from telecommunication equipment transmitted over radio channels.

OTHER EQUIPMENT

On the CHRONOS METER website you can see other products, including: Home stations, Mounting accessories, Interface repeaters, Interface splitters, Power supplies, ...





DESIGN OF TELEMETRY SYSTEMS

AT THE CUSTOMER'S REQUEST, WE DESIGN EQUIPPING OBJECTS WITH SMART METERING DEVICES FOR BUILD AN INTELLIGENT AUTOMATED TELEMETRY AND DISPATCHING SYSTEM



OEM PRODUCTION OF METERING DEVICES

UPON REQUEST, WE MANUFACTURE OUR METERING DEVICES AND TELECOMMUNICATION EQUIPMENT UNDER THE CUSTOMER'S TRADEMARK



ODM ELECTRONICS ASSEMBLY

ON REQUEST, WE ASSEMBLE CUSTOMER'S ELECTRONICS

- · Optimal manufacturing and development time
- Competitive prices
- High quality standards
- SMD installation with a capacity of up to 70 thousand components per hour
- Installation of microcircuit packages: BGA, QFN, QFP, CSP
- · Fabrication of tooling for any type of circuit boards
- Maximum component height up to 15 mm
- Board dimensions (up to 457x457 mm)
- Installation accuracy up to 20 μm
- Automatic optical inspection
- · Diagnostics and firmware of microcircuits
- Battery diagnostics





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