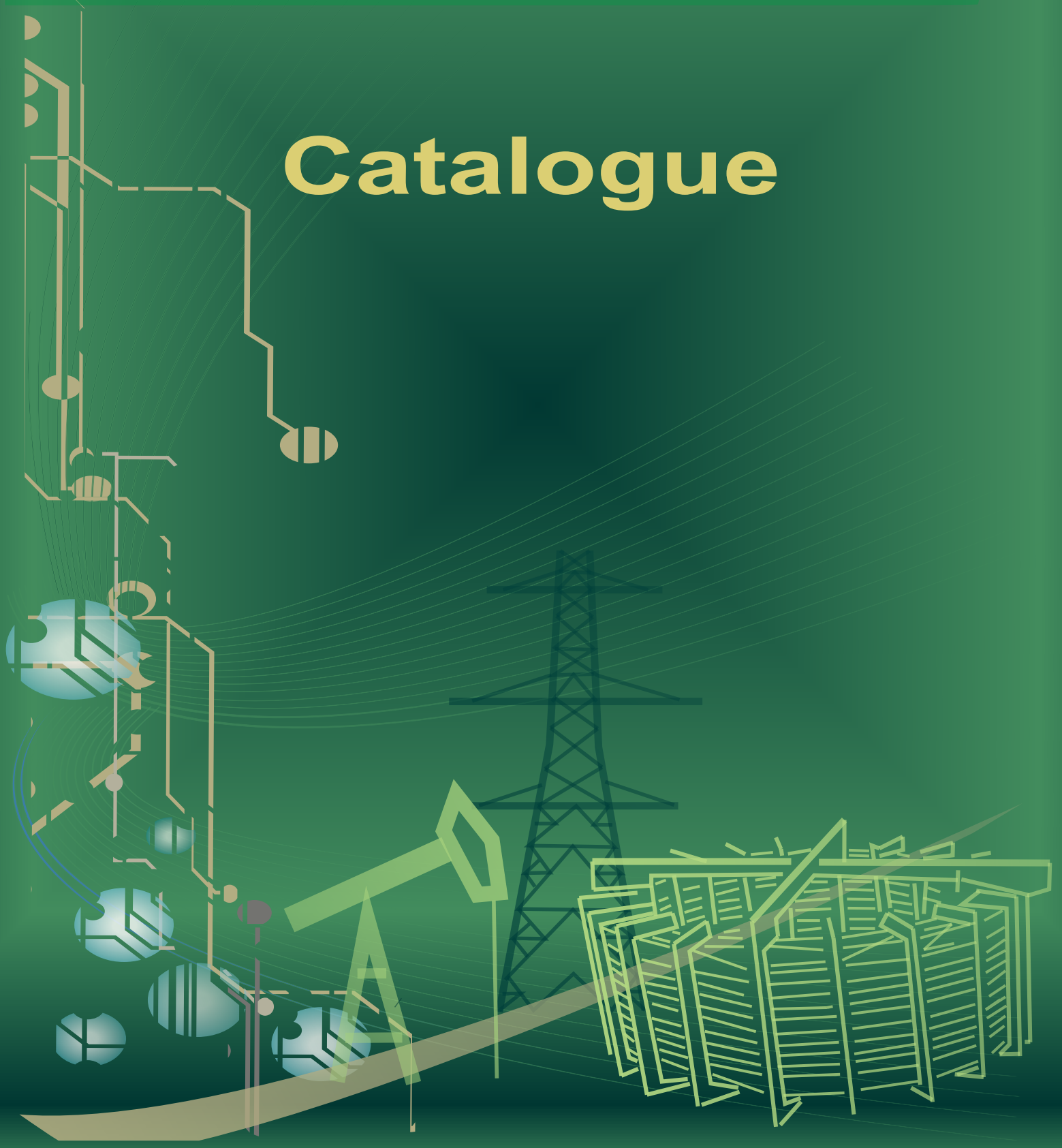




***Electronic  
Information  
Systems***

# Catalogue





# *Electronic Information Systems*

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## ABOUT US





# *Electronic Information Systems*

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“Electronic Information Systems” (EIS) was founded in 1992 based on the Urals largest device-engineering association – FSUE SIA “Automatics” – leading developer and producer of control systems in the USSR and Russia for the Military Industrial Complex (MIC) and the Russian Space Agency.

The scope of EIS' activities includes the designing and manufacturing of devices, technological processes and monitoring & control systems in the following industries: power, oil and gas, chemicals, petrochemicals and metallurgy.

In the designing and manufacturing its equipment, the closed stock company “EIS” uses the potential of the “basic” company: experience of high-reliable system designing and manufacturing, infrastructure, and management system of production quality.

EIS' output embraces a wide spectrum of devices for the monitoring and regulation of electric and non-electric values (temperature, pressure, flow rate etc), rating transducers, supply units, flame monitoring devices, and temperature sensors.

Since 2002, work began on designing and producing a series of MT-40xxx small measuring transducers for the conversion of direct voltage and current signals, thermal resistance transducer and thermal electric transducer signals to a unified direct current or voltage signals. All transducers support galvanic isolation of input signals from both output signals and supply voltage. At present, this series includes 15 types of transducers, and the development of new modifications is constantly in progress.

In 2005, the firmware facilities of automatic control system for gas-pumping assembly (FF ACS GPA) were put into operation.

The creation of FF ACS GPA served as a platform for the implementation of a wide spectrum of additional tasks associated with the automation of gas-pumping assemblies.



# Electronic Information Systems





# Electronic Information Systems

## “Pilon”

Turn-Key Solution, including Software and Hardware Universal solution “Pilon” is used to measure and process the signals, coming from the sensors, installed directly at the equipment as well as to generate the commands to control automatically or manually the supervised objects. The complex is also used to monitor the key parameters of the technological process.

“Pilon” consists of the following elements:

- operator workstation
- logic processing unit
- communication unit
- optional enclosure
- maintenance kit
- software



## “SAU GPA”

To control automatically your gas compressor station you definitely need our customizable software solution “SAU GPA”. Software is full of modern and cutting-edge know-hows.

- three-channel and two-channel backup feature
- ability to self control each unit, module and even a sensor
- integrated input-output modules based on the modern microcontrollers
- any module of the system could be changed and updated while the whole system goes on working

## “SAU GRS”

To control locally or remotely your gas compressor station you need our special-purpose software solution “SAU GPA”.

Software has a lot of unique features, among them are:

- automatic, remote and manual control of the gas compressor station
- telemetry functions
- control of gas odorization system
- up to 32 analogue input signals including signals from TSM, TSP and pressure sensors
- up to 104 discrete low-voltage (24V) input signals
- up to 16 low-frequency inputs
- up to 32 output discrete signals
- up to 4 output analogue signals



# Electronic Information Systems

## “SAU GTES”

It is used in automated gas-turbine power stations operating without regular maintenance where automatic control systems for technological processes is applied.

Connection with top level

-RS 485 – 3

-IRPS – 3

-Ethernet 10



## “SAU AGIKS”

It is used at automobile gas-filling compressor stations and designed for monitoring, control and emergency protection of MBCE-250 (modular block-container execution) AGFCS stations in all modes of operation. It also performs compressor state diagnoses, measuring the quantity of gasoline delivered into the station's reserve tanks and the quantity of gas filled in customer's automobiles.

-up to 128 input analogue signals

-up to 512 input discrete signals

-up to 512 output discrete signals

-emergency protection 27/54

-main reduced error 0,2%

-100ms control cycle

## DATA ACQUISITION SYSTEM

### “CITRON-M”

“CITRON-M” is a multifunctional extensible system of industrial technological process monitoring and control.

“CITRON-M” is intended for use in different automation & measurement branches under twenty-four-hour service conditions.

“CITRON-M” is designed based on communication controllers with object, if necessary, other data acquisition controllers may be connected to it.

“CITRON-M” may be used with variable number of devices

subject to software setting up.

### Main CITRON specifications:

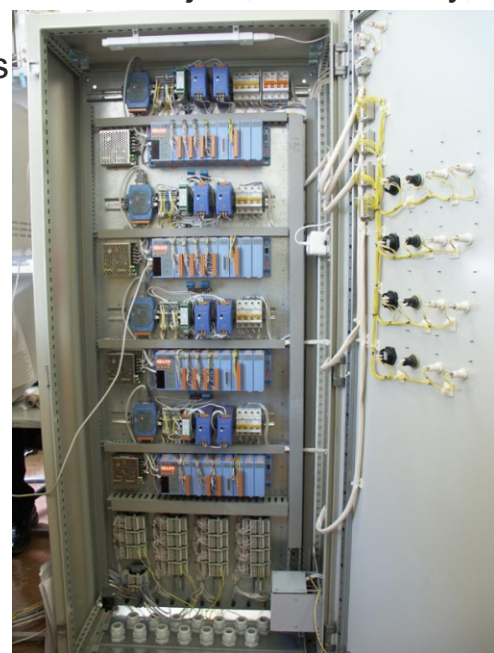
Maximum number of measuring (analog and frequency) channels: 4096

Maximum number of information (discrete) channels: 12288

Inquiry cycle of analogue and frequency parameters is adjustable in the range of 1 s – 60 minutes

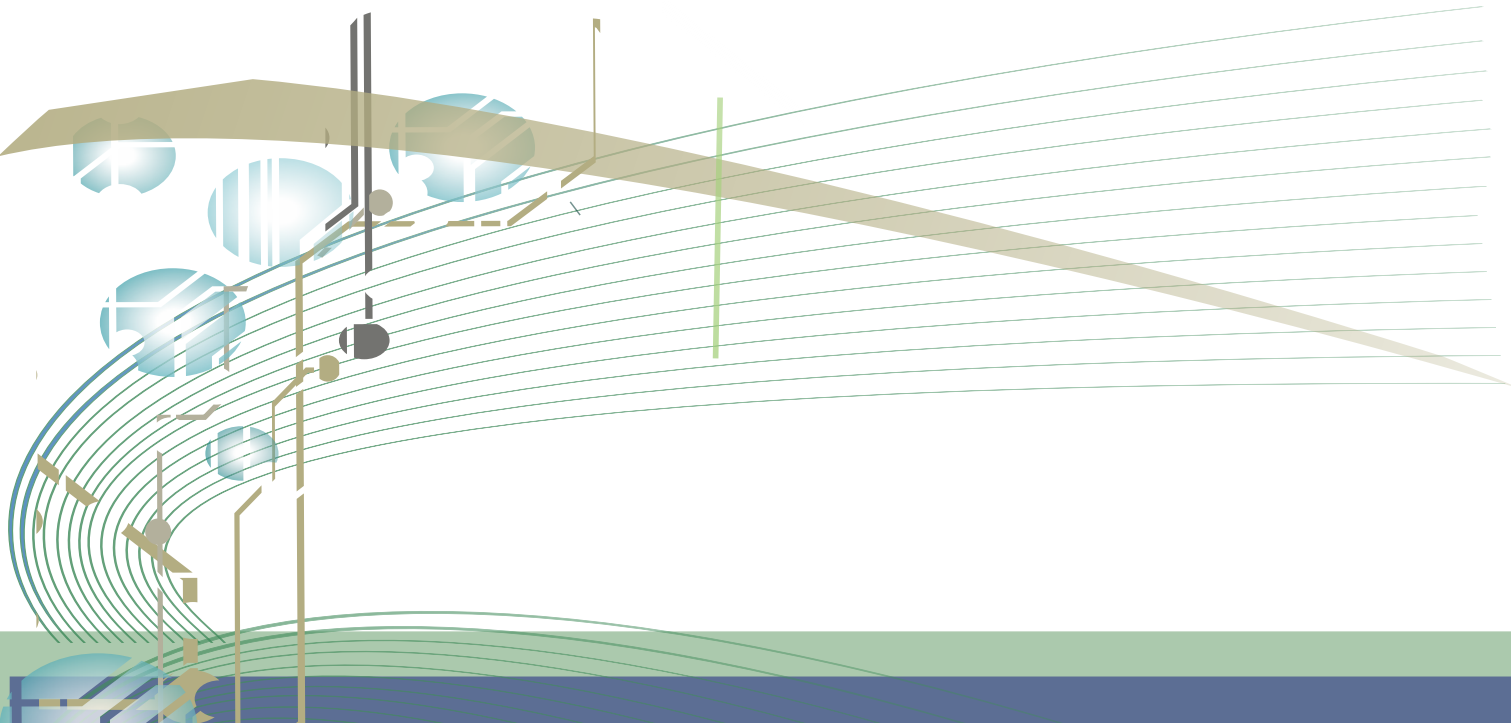
Inquiry cycle of discrete parameters is adjustable in the range of 100 ms – 60 minutes

Interface RS-485 is used to transfer the data to the data collection center





# *Electronic Information Systems*





# Electronic Information Systems

## Transducers

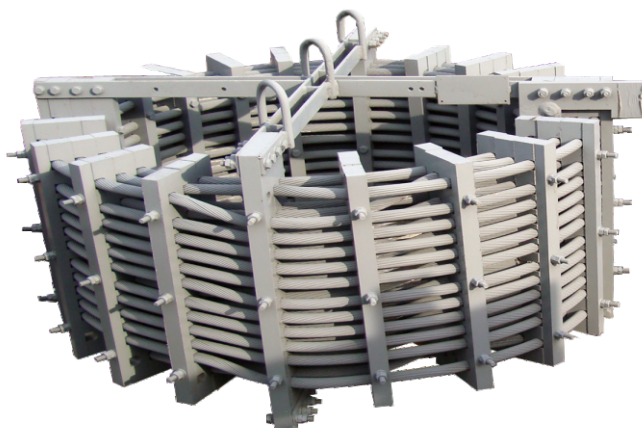
We manufacture the transducers which are used for conversion of direct voltage & current signals, thermal resistance transducer and thermal electric transducer signals into unified direct current or voltage signals. All these transducers support galvanic isolation of input signals from output signals, and from supply voltage. They could be used to change the out-of-date normalizing units (BN) or enclosed transducers (SCHP) in control systems.

At the present moment we are manufacturing more than 15 various transducers and constantly developing new models.



## POWER LINE COMMUNICATION

Universal Protective Device (euro design)  
"KEDR" PLC Control Device  
AKST "Linia-Ts" to process digitally the signals  
ET-8 Device  
Line Traps  
Coupling Devices  
Separating Filters  
Coupling Capacitors  
Voltage Enclosures ShON-301S, ShON-302S  
Signal Transformation Device  
Complex to transfer data and speech  
Control Device "ISET"  
Remote automatic communication equipment for energy systems ADASE-BK







# Electronic Information Systems

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## POWER SUPPLY UNITS



Intended for supporting different consumers with 220 VAC of industrial frequency, including when input voltage disappearing.

Our power supply units could be used instead of the out-of-date power supply units in control systems.

## INVERTERS

### IU 600-220 inverter unit

This inverter is intended for supply of different electronic & electric devices with 220 VAC.

#### Specifications

- Nominal, maximum (no more than 3 minutes), peak powers are equal to 600 W, 680 W, and 800 W accordingly.
- Operates from primary energy supply – accumulator battery or 110...220 VDC source.
- Supports also applying to input of AC voltage in the range from 90 to 264 V.
- Has protection against current overload or short circuit in load circuit.
- Has protection against decreasing/exceeding of input voltage in the range from ~ 90 to 264 V, = 110 to 370 V, and resets automatically when increasing/decreasing of input voltage to indicated values.
- Average lifetime is no less than 12 years.

### IU 600-24 inverter unit

This inverter is intended for supply of electronic & electric devices with 220 VAC.

#### Specifications

- Nominal, maximum (no more than 3 minutes), peak powers are equal to 600 W, 680 W, and 800 W accordingly.
- Operates from primary energy supply – accumulator battery or 24 VDC source.
- Power, which is consumed by IU from primary energy supply, should not exceed 780 W at maximum load current.
- Has protection against current overload or short circuit in load circuit.
- Has protection against decreasing/exceeding of input voltage in the range of (21.0-30.0) V, and resets automatically at the levels of (21.5-29.5) V.
- Average lifetime is no less than 12 years.





# Electronic Information Systems

**СОГЛАСОВАНО:**  
 Технический Протокол  
 Подписан ОАО «ФСК ЕЭС»  
 Р.Н. Бардаков  
 2011 г.

**УТВЕРЖАЮ:**  
 Первый заместитель Председателя  
 Правления ОАО «ФСК ЕЭС»  
 В.Н. Чистяков  
 2011 г.

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 Правления ОАО «ФСК ЕЭС»  
 В.Н. Чистяков  
 2010 г.

**ЗАКЛЮЧЕНИЕ  
 АТТЕСТАЦИОННОЙ КОМИССИИ**  
 № 4/10/10-2010  
 от 10.02.2010 г. по 10.02.2010 г.

**РАЗРАБОТАНО**  
 Технический директор  
 ОАО «НПП ФСК ЕЭС»  
 А.Ю. Корсаков  
 2010 г.

**УТВЕРЖАЮ**  
 Заместитель Председателя  
 Правления  
 ОАО «ФСК ЕЭС»  
 Р.Н. Бардаков  
 2012 г.

Доводим до заключения  
 аттестационной комиссии  
 №47821-2010 от 02.08.2010 г.  
 № 4/10/10-2010 от 10.02.2010 г.

Срок действия с 02.08.2012 до 02.08.2015 г.

**ОБОРУДОВАНИЕ**  
 Выпущенное на заводе серии ВЗ-630-0,25 УХЛ1,  
 ВЗ-630-1,0 УХЛ1, ВЗ-209-0,1 УХЛ1, ВЗ-2090-1,0 УХЛ1.

**ИЗГОТОВИТЕЛЬ**  
 ЗАО Науво – производственное предприятие  
 «Электронные информационные системы»

**СООТВЕТСТВУЕТ**  
 требованиям ОАО «ФСК ЕЭС».

**РЕКОМЕНДУЕТСЯ**  
 для применения на объектах ОАО «ФСК ЕЭС».

Затверждена в соответствии с требованиями действующей системы менеджмента качества ОАО «ФСК ЕЭС».

**ЗАКЛЮЧЕНИЕ  
 АТТЕСТАЦИОННОЙ КОМИССИИ**  
 № 4/10/10-2010  
 от 10.02.2010 г. по 10.02.2010 г.

**ДОБАВИТЬ**  
 информацию на различные серии ВЗ-630-0,25 УХЛ1, ВЗ-630-05 УХЛ1,  
 ВЗ-630-1,0 УХЛ1, ВЗ-209-0,1 УХЛ1, ВЗ-2090-1,0 УХЛ1.

**ОБЪЕКТ**

Данные являются частью программы «Электронные информационные системы»

**ОТВЕТСТВУЕТ**

на соответствие и дополнительные требования ОАО «ФСК ЕЭС».

**ПРИДУМЕТСЯ**

использованию на объектах ОАО «ФСК ЕЭС».

Данные являются частью программы «Электронные информационные системы»

использованию на объектах ОАО «ФСК ЕЭС».



***Electronic  
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# 6



## *Electronic Information Systems*



### **Description**

Our proprietary logistics tracking software CuteLOGISTICS allows you to manage your full logistics and warehousing needs. Base features include the provision of automated order notifications and processing, tools to assist with delivery routing, and proprietary warehouse optimization algorithms which automatically suggesting placing strategies.

### **Features**

#### Tracking at receiving

- Quality control
- Cross-docking
- Recording inspection testing
- Tracking the unloading and assembling of pallets
- Working with redeliveries

#### Tracking shipments

- Packing
- Marking and filling out documents
- Orders consolidation according to route
- Online vehicles reservation
- Routing and tracking via Web

#### Inventory control

- Balance classification
- Inventory tracking
- Blockings

#### For physical placing

- Creates placing strategies
- Controlled placing
- Monitoring of storage location

### **Benefits**

CuteLOGISTICS is a comprehensive system for inventory management. As a scalable platform application, CuteLOGISTICS can be implemented to optimize inventory placing and shipping strategies or expanded to manage product value chains from the reception of raw materials through the shipping of finished goods.



## Description

CuteSCADA technology is the next generation of cross-platform monitoring and control software, being both infinitely customizable and scalable. Our solution developers will work closely with you to understand your needs and quickly translate it into a visual solution, which will give you full control and monitoring capabilities over your process.

## Features

Our SCADA gives you unprecedented system control and value:

- Intuitive UI
  - delivers critical information at a glance and simplifies operator training
- Multi-level monitoring:
  - Ability to view aggregate level data or drill down to component
  - Vendor agnostic device monitoring and control allows for integration with legacy systems
  - Ability to easily change control and alarm parameters
  - Works with industry standard protocols (ModBUS RTU, TCP/IP, NetBIOS, ProfiBUS, CanBUS, etc)
  - Maximum security protection: easily control user rights and audit user history
  - Proven in harsh and remote environments
  - Advanced report generation capability
  - To the millisecond data playback, viewed in graphical or tabular formats
  - Export data to any database using SQL Syntax
  - Embedded Graphics Editor with symbols library
  - Executes automatic control programs in emergency situations

## Benefits

- The User can design and change control / alarm parameters with no programming skills required
- Redundant system design delivers unmatched mean time between failures
- CuteSCADA is compatible with Windows, WindowsCE/Mobile, Linux, Embedded Linux, MacOS and Symbian software platforms
- Unique predictive failure analysis algorithms for turbomachinery avoids unscheduled shutdowns and costly maintenance.



***Electronic  
Information  
Systems***



***Electronic  
Information  
Systems***



# ***Electronic Information Systems***

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