



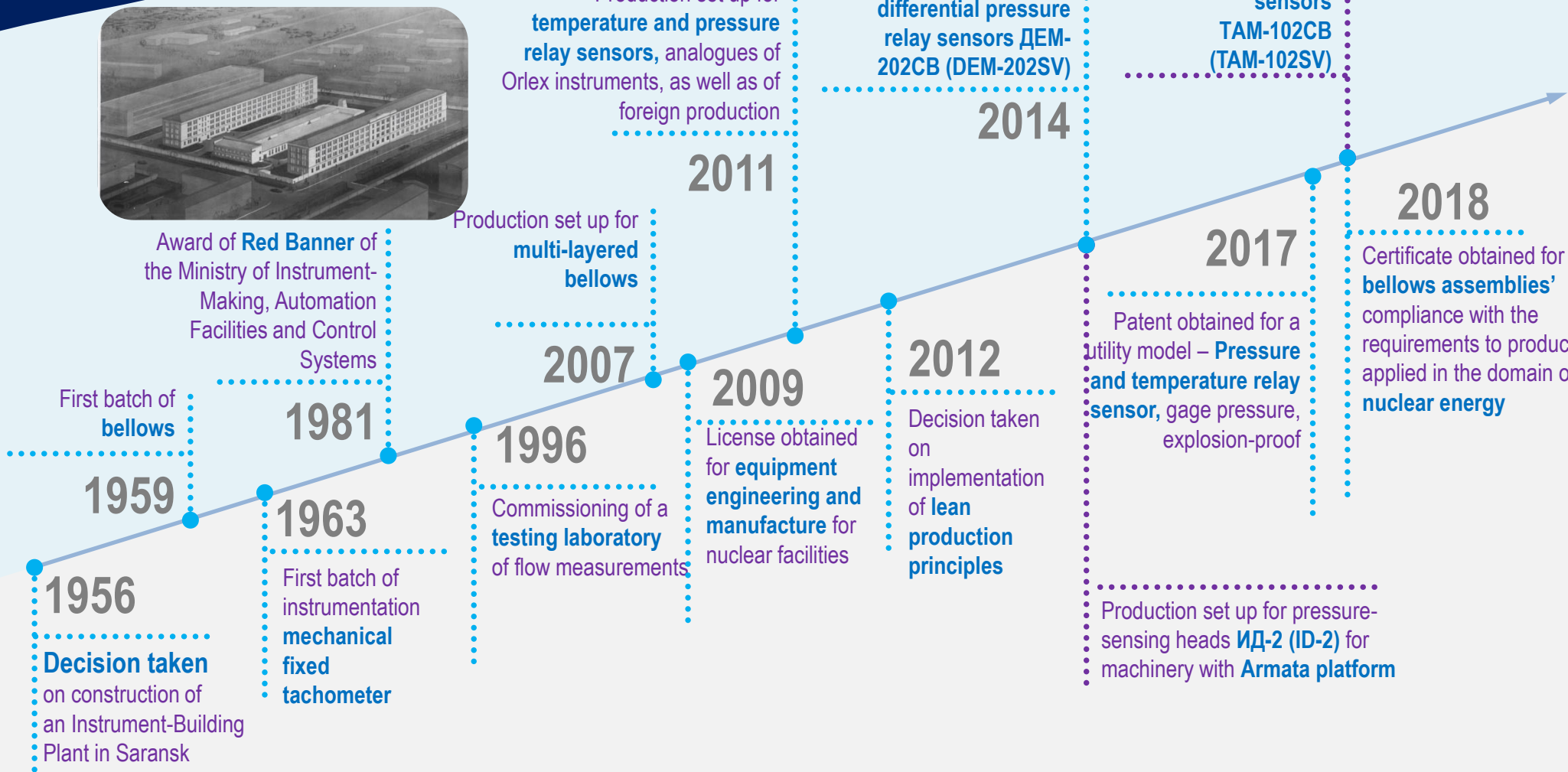
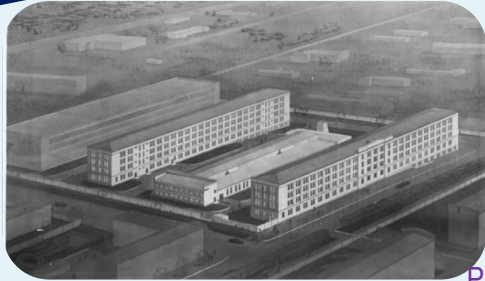
***PJSC Saransk instrument works***

**Instrumentation Production**





# About the plant





## About the plant

Staff number

**500**

people

Including  
**50**  
specialists in the design  
and process departments

Output value

**500**

mln rub.\*

Main lines of business:  
Bellows and  
instrumentation, services,  
tests

Annual steady and strong growth of sales volume due to  
launching new products and extending the customer pool

**1000**

Purchasing  
companies

Including oil and gas,  
cosmonautics, rocket  
engineering, military-  
industrial complex, aviation,  
railway and shipbuilding  
enterprises

\* - as per the approved business plan



**50**  
new articles  
in 3 years

**Instrument  
Design Bureau**

**Special Design Engineering  
Bureau**

**5**

main disciplines

**Chief Process Engineer's  
Department**

**Department for mechanization,  
automation, and custom  
equipment**

**Test section**



Product development uses state-of-the-art licensed software and design documentation storage systems, which allow timely changes in article configuration to offer products customized for the individual customer. Besides, we have established relationship with numerous leading Design Bureaus in the country.



Manufacturing  
capacity

**300**

mln rub.  
of investments  
for 10 years



### Machining process

- Automatic lathes
- CNC milling machines
- Four-axis machining centres
- Sliding head machines
- Grinding equipment



### Welding engineering

- Laser beam welding
- Argon arc welding



### Coating application

- Painting lines
- Galvanizing lines
- Zinc etching

As well as ferrous and non-ferrous metal stamping, aluminium casting, plastic moulding and articles manufacture of rubber compounds

95  
types of  
instruments



Process control and management



Temperature and pressure control



Motion measurement



Process automation



# Products

## Temperature and pressure control



Pressure relay sensors  
DEM 102C (DEM-102S),  
DEM-105C (DEM-102S)



Temperature relay sensors  
TAM-103C (TAM-103S)<sup>1</sup>



Pressure relay sensors  
ДРД-102СВ (DRD-102SV),  
ДРД-105СВ (DRD-105SV)



Differential pressure relay sensors  
DEM-202C (DEM-202S),  
ДРД-202СВ (DRD-202SV)



Temperature relay sensors  
TAM-102C (TAM-102S),  
TAM-102СВ (TAM-102SV)<sup>2</sup>



Pressure and temperature relay sensors are intended for pressure control in air supply systems, as well as for temperature and pressure control in lubrication, fuel and cooling systems of automated diesel engines; they are applied in shipboard installations and are suitable for operation in all land and marine macroclimatic areas.



# Rotation speed measurement and control



Primary transducer  
Д-1М (D-1M)



Magnetic drag-type remote-reading tachometer ТММ (ТММ)<sup>3</sup>



Magnetic drag-type tachometer  
ТЭ-4В (ТЕ-4V)<sup>4</sup>



Primary transducer  
Д-2М (D-2M)



Magnetic drag-type tachometer  
8 ТМ (8-ТМ)<sup>5</sup>



Magnetic drag-type tachometer sensors Д4 (D4)



Magnetic drag-type tachometer sensors Д5 (D5)

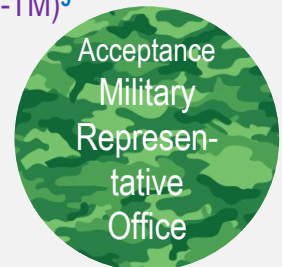


Magnetic drag-type tachometer ТМ (ТМ)<sup>7</sup>



Electronic tachometer  
Т-ЭД (Т-ЭД)<sup>6</sup>

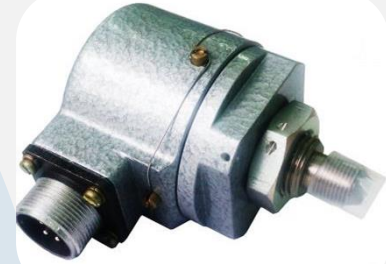
PJSC SIW instruments are applied for rotation speed measurement and control in transmission control systems of heavy machinery







Pressure alarm СД (SD)



Pressure-sensing head ПД-1 (PD-1)



Pressure indicator ИД-1 (ID-1)<sup>8</sup>



Pressure-sensing head ИД-2 (ID-2)



Air cleaner contamination indicator ИЗВ-700 (IZV-700)

PJSC SIW instruments are applied for pressure measurement, control, and adjustment in transmission control systems of heavy machinery





I/P-positioner ЭПП (EPP)<sup>12</sup>



Air pressure stabilizing filters ФСДВ (FSDV)<sup>9</sup>



Pneumatic positioners ПП (PP)<sup>11</sup>



I/P-transducers ЭП (EP)<sup>10</sup>

Pneumatic positioners and transducers are applied to transmit electrical signals converted into pneumatic signals to pipeline valve actuators, as well as to reduce stroke imbalance and increase operating speed of reciprocating piston actuators, single- and double-acting pneumatically operated rotary actuators, and pneumatic diaphragm actuators.



# Process control and management

# Products



Draught meters ТмМП-52-М2 (ТmMP-52-М2), ТмМП-52-М3 (ТmMP-52-М3), head flow meters НМП-52-М2 (NMP-52-М2), НМП-52-М3 (NMP-52-М3), draught and head gauges ТНМП-52-М2 (TNMP-52-М2), ТНМП-52-М3 (TNMP-52-М3), diaphragm-type, with indications<sup>15</sup>

Draught meters ТмМП-100-М1P (ТmMP-100-М1P), head flow meters НМП-100-М1P (NMP-100-М1P), draught and head gauges ТНМП-100-М1P (TNMP-100-М1P) diaphragm-type, with indications, with radial nozzles

In 2017, the recalibration interval was extended for head flow meters НМП-52-М2,М3 (NMP-52-М2,М3), draught meters ТмМП-52-М2, М3 (ТmMP-52-М2, М3) and draught and head gauges ДТТМП-52-М2, М3 (DTtMP-52-М2, М3), which is now 2 years.



Draught meters ТмМП-100-М1 (ТmMP-100-М1), head flow meters НМП-100-М1 (NMP-100-М1), draught and head gauges ТНМП-100-М1 (TNMP-100-М1), DP-gauges/draught meters ДТмМП-100-М1 (DTmMP-100-М1), DP-gauges/head flow meters ДНМП-100-М1 (DNMP-100-М1), DP-gauges/draught and head gauges ДТНМП-100-М1 (DTNMP-100-М1) diaphragm-type, with indications<sup>14</sup>

Draught meters ДТ-С2 (DT-S2), ДТ-СН (DT-SN), ДТ-СВ (DT-SV), head flow meters ДН-С2 (DN-S2), ДН-СН (DN-SN), ДН-СВ (DN-SV), draught and head gauges ДГ-С2 (DG-S2), ДГ-СН (DG-SN), ДГ-СВ (DG-SV), with indications and alarms<sup>13</sup>

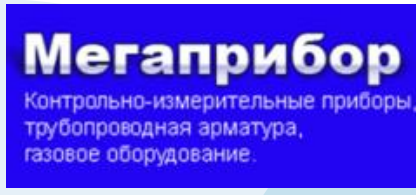




Dealers and partners



NPF Rasko



Megapribor



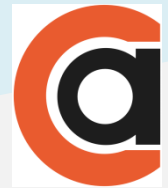
Sibteploelektrokomplekt



AktauTechVest



OMZ TAU



Spetsarmatura



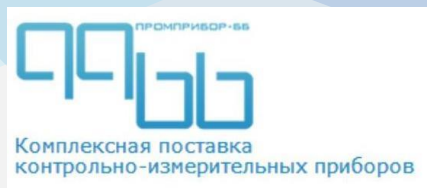
ElektroPromSnab KZ



Parametr



TeploSTAR



Prompribor-66



GazKomplekt



NPF GazKipKomplekt





# Joint development



Pressure relay sensor  
ДЕМ-102 (DEM-102)<sup>23</sup>



Key-operated valve  
VE-ПАККО (VE-RASKO)<sup>16</sup>

PJSC SIW develops and manufactures equipment and PNF Rasko has an exclusive right for product sales.



Pressure relay sensor  
ДЕМ-105М (DEM-102)<sup>22</sup>



Differential pressure indicator  
ИРД-80 (IRD-80)<sup>17</sup>



Differential pressure relay sensor  
ДЕМ-202 (DEM-202)<sup>21</sup>



Pointer-type indicating differential pressure gauge  
ДСП-80 (DSP-80), ДСП-80В (DSP-80V)<sup>18</sup>



Differential pressure relay sensor  
ДЕМ-202М (DEM-202)<sup>20</sup>



Gauge pressure transmitter  
ПД-Р (PD-R)<sup>19</sup>

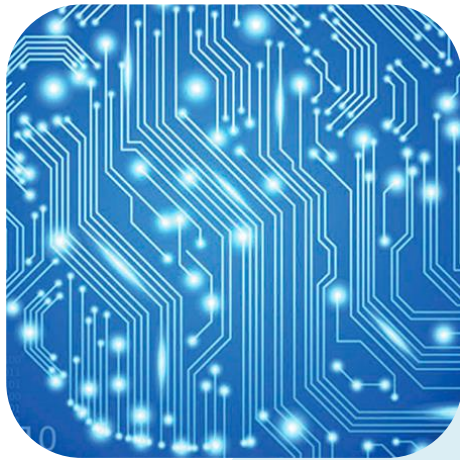
An example of long-standing, successful and mutually beneficial cooperation is a partnership between PJSC SIW and NPF Rasko in development and manufacture of instrumentation for housing services and utilities enterprises



Explosion protection



Focus on  
development



Instrumentation  
digitalization



Collaboration with Design  
Bureaus and R&D  
Establishments



Import substitution

- 1 Axial draught and head gauges with 270° arrow coverage
- 2 Radial head flow meters with 270° arrow coverage and a warning instrument
- 3 Pressure sensors ПД-С (PD-S)
- 4 Electronic positioners





## Testing laboratory

High-pressure laboratory for  
pneumatic and hydraulic tests

Vibration tables

Climate chambers

Measuring instruments system for  
mechanical impact tests

## Production and industrial hygiene monitoring laboratory

Paint and coating thickness measurement

Substance and material weight  
measurement

Chemical analysis for material, metal and  
alloy incoming inspection

## Metallography laboratory

Metal hardness measurement

Heat treatment quality control,  
defect analysis

Post-heat-treatment metal  
microstructure control





**СЕРТИФИКАТ СООТВЕТСТВИЯ**  
№ 6300.312149/RU от «21» декабря 2015 г.

Выдан: Акционерному обществу «Саранский приборостроительный завод»

НАСТОЯЩИЙ СЕРТИФИКАТ УДОСТОВЕРЯЕТ, ЧТО СИСТЕМА МЕНЕДЖМЕНТА КАЧЕСТВА



СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ ПРОДУКЦИИ И СИСТЕМ КАЧЕСТВА ПРЕДПРИЯТИЙ ОБОРОННЫХ ОТРАСЛЕЙ ПРОМЫШЛЕННОСТИ

**СЕРТИФИКАТ СООТВЕТСТВИЯ**  
№ 00612/RU от «21» декабря 2015 г.

Выдан: Акционерному обществу «Саранский приборостроительный завод»

НАСТОЯЩИЙ СЕРТИФИКАТ УДОСТОВЕРЯЕТ, ЧТО СИСТЕМА МЕНЕДЖМЕНТА КАЧЕСТВА

применительно к разработке, производству, реализации и обслуживанию приборов и средств автоматизации общепромышленного назначения, силовых и силовых узлов

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ

GOST ISO 9001-2011

Действителен до «01» ноября 2018 г.

Руководитель органа по сертификации



Н. С. ХЕРСОНСКИЙ

Зарегистрирован в Едином Реестре № RU.0103301028-СК от 21 декабря 2015 г.

PJSC SIW quality management systems comply with the requirements of

GOST RV 0015-002-2012  
GOST ISO 9001-2011

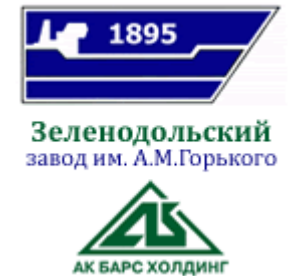
We are the only enterprise in the Volga region with the licenses for equipment engineering and manufacture for nuclear facilities of nuclear power plants for 10 years







# Key customers





## References

- 1, 2 - Declaration of Conformity to TR CU 004/2011 On the Safety of Low-Voltage Equipment EEU No. RU Д-РУ.АТ 15.В.02073 as of 12.07.2017.
- 3 - Declaration of Conformity to TR CU 020/2011 On the Electromagnetic Compatibility of Technical Devices EEU No. RU Д-РУ.АЖ 26.В.02234 as of 10.04.2018.  
Pattern Approval Certificate of Measuring Instruments RU.C.28.000.A No. 2086/3 as of 29.12.2017.
- 4 - Pattern Approval Certificate of Measuring Instruments RU.C.28.018.B No. 51585/1 as of 22.06.2018.
- 5 - Pattern Approval Certificate of Measuring Instruments RU.C.28.000.A No. 11241/1 as of 29.12.2017.
- 6 - Pattern Approval Certificate of Measuring Instruments RU.C.28.001.A No. 57598 as of 30.01.2015.
- 7 - Pattern Approval Certificate of Measuring Instruments RU.C.28.000.A No. 11240/1 as of 29.12.2017.
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- 9, 10, 11, 12, 13, 14, 15, 16 - Certificate of Conformity to industrial safety requirements No. C-PTЭ.002.EY.00169 as of 25.05.2014.
- 10 - Certificate of Conformity to TR CU 012/2011 On the Safety of Equipment in Explosion Hazardous Environments No. TC RU C-РУ.ГБ08.В.00212 as of 21.02.2014.
- 12 - Certificate of Conformity to TR CU 012/2011 On the Safety of Equipment in Explosion Hazardous Environments No. TC RU C-РУ.ГБ08.В.00213 as of 21.02.2014.
- 13 - Pattern Approval Certificate of Measuring Instruments RU.C.30.000.A No. 18600 as of 20.03.2015.
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Pattern Approval Certificate of Measuring Instruments RU.C.30.390.A No. 66639 as of 31.07.2017.
- 16 - Declaration of Conformity to TR CU 010/2011 On the Safety of Machinery and Equipment CU No. RU Д-РУ.АЯ04.В.00192 as of 19.08.2015.
- 17 - Certificate of Conformity to TR CU 010/2011 On the Safety of Machinery and Equipment CU No. RU C-РУ.ГБ08.В.00271 as of 25.03.2014.
- 18 - Pattern Approval Certificate of Measuring Instruments RU.C.30.000.A No. 34043 as of 04.02.2014.  
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- 20, 21, 22, 23 - Declaration of Conformity to TR CU 004/2011 On the Safety of Low-Voltage Equipment, TR CU 020/2011 On the Electromagnetic Compatibility of Technical Devices EEU No. RU Д-РУ.МО10.В.02291 as of 23.10.2017.



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