SONAR

scientific and production enterprise

BRIEF CATALOGUE OF PRODUCTS

2020

Since 2000 Sonar Scientific and Production Enterprise has been specializing in development and production of hardware and diagnostic tools for monitoring of corrosion in oil and gas lines as well as in process equipment.

The produced equipment solves a wide range of tasks on monitoring of corrosion state of pipeline internal surfaces in order to detect the corrosion penetration level on time and prevent its consequences.

A serial production of a generation of corrosion rate monitoring devices based on intrusive sensors has been developed and mastered at Sonar.

Each product of our company is certified in accordance with the TR CU. Technical solutions are protected by inventor's certificates and patents.

By now Sonar team has created a number of design and process solutions on monitoring of local corrosion processes with assessment of their parameters as well as the software which is able to assess corrosion processes under strong disturbances using authors' data processing algorithms.

Researchers and specialists of the company have discovered unique technical solutions. These solutions serve as the basis for the creation and implementation of a new generation of devices based on multivariable measurements and capable of diagnosing corrosion over the entire pipe section.

Company development and mastering of new technologies is ensured by the presence of highly qualified developers in various technical fields. In addition to their core responsibilities, these developers participate in international and regional conferences and exhibitions.

Increased research and development as well as readiness to meet customer requirements as promptly and efficiently as possible are the main components of the company's success.

Contents

Probe with strip coupons

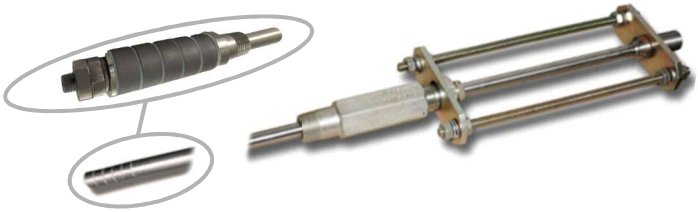
The device is designed to measure the corrosion rate using gravimetric (weight) method by insertion and exposure of strip coupons into the pipeline. The probe delivery set includes the probe itself, lubricator, coupons holder, coupons - 2 pcs., a set of coupon fasteners and a set of disposable spare parts (sleeves or seals, replacing worn ones).

Designation	Operating pressure, MPa	Probe length, mm	Recommended pipe diameter, mm	Coupons material
Probe OSK RAST.040000.402-10-040	4 MPa	500	89	Steel 3, 20, 12H18N10T, 09G2S, 13HFA
Probe OSK RAST.040000.402-14-040	4 MPa	700	89 - 219	
Probe OSK RAST.040000.402-03-040	4 MPa	1000	219 - 530	
Probe OSK RAST.040000.402-15-040	4 MPa	1200	530 - 720	
Probe OSK RAST.040000.402-10-160	16 MPa	500	89	
Probe OSK RAST.040000.402-14-160	16 MPa	700	219 - 530	
Probe OSK RAST.040000.402-03-160	16 MPa	1000	219 - 530	
Upon customer request, the probe length can be from 500 mm up to 6000 mm				

Probe with strip coupons is installed on liquid and gaseous medium transportation pipelines causing no interruption of medium transfer and no product loss. Probe with strip coupons is inserted into the pipeline and removed from it by means of a retriever or a retriever wrench via a pre-installed access device.

Probe with cylindrical coupons

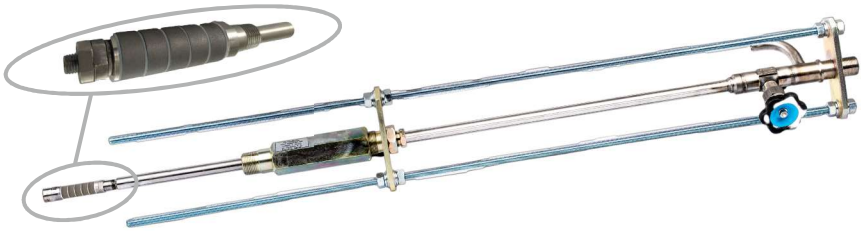
Probe with cylindrical coupons is designed to measure the corrosion rate using gravimetric (weight) method by insertion and exposure of cylindrical coupons into the pipeline. The probe consists of a cylindrical body made of stainless steel, cylindrical coupons holder, lubricator, and a reinforcement structure which consists of 2 plates and studs. The probe delivery set includes a cassette of 5 or 10 cylindrical coupons and a set of disposable spare parts (sleeves or seals, replacing worn ones). Probe with cylindrical coupons is inserted into the pipeline and removed from it by means of a retriever or a retriever wrench via a pre-installed access device.



Designation	Operating pressure, MPa	Probe length, mm	Coupons quantity, pcs.	Recommended pipe diameter, mm	Coupons material
Probe OSKTS RAST.040000.403-01-040	4 MPa	500	5	89	Steel 3, 20, 12H18N10T, 09G2S, 13HFA
Probe OSKTS RAST.040000.403-02-040	4 MPa	500	10	89	
Probe OSKTS RAST.040000.403-04-040	4 MPa	790	5	89 - 219	
Probe OSKTS RAST.040000.403-06-040	4 MPa	790	10	89 - 219	
Probe OSKTS RAST.040000.403-03-040	4 MPa	1000	5	219 - 530	
Probe OSKTS RAST.040000.403-040	4 MPa	1000	10	219 - 530	
Probe OSKTS RAST.040000.403-09-040	4 MPa	1200	5	530 - 720	
Probe OSKTS RAST.040000.403-12-040	4 MPa	1200	10	530 - 720	
Probe OSKTS RAST.040000.403-01-160	16 MPa	500	5	89	
Probe OSKTS RAST.040000.403-02-160	16 MPa	500	10	89	
Probe OSKTS RAST.040000.403-04-160	16 MPa	720	10	89 - 219	
Probe OSKTS RAST.040000.403-03-160	16 MPa	1000	5	219 - 530	
Probe OSKTS RAST.040000.403-160	16 MPa	1000	10	219 - 530	
Upon customer request, the probe length can be from 500 mm up to 6000 mm.					

Probe with cylindrical coupons and sampling assembly

Probe with cylindrical coupons and sampling assembly is designed to measure the corrosion rate using gravimetric (weight) method and to take samples from the transported medium. It is made of stainless steel and consists of a hollow rod, a holder of probes with cylindrical coupons and sampling assembly, lubricator, a gooseneck with a valve and a reinforcement structure which consists of of 2 plates and studs. According to the probe design it is possible to install 5 or 10 cylindrical coupons. The probe delivery set includes a cassette of 5 or 10 cylindrical coupons and a set of disposable spare parts (sleeves or seals, replacing worn ones).



Designation	Operating pressure, MPa	Probe length, mm	Recommended pipe diameter, mm	Coupons material
Probe OSKTS RAST.040000.403-25-040	4 MPa	500	89	Steel 3, 20, 12H18N10T 09G2S, 13HFA
Probe OSKTS RAST.040000.403-21-040	4 MPa	1000	219 - 530	

The probes are designed for pressure up to 4,0 and 16,0 MPa and upon customer request; the probe length can be from 500 mm up to 6000 mm.

The probe with cylindrical coupons and sampling assembly is installed on liquid medium transportation pipelines causing no interruption of medium transfer and no product loss. Probe with cylindrical coupons and sampling assembly is inserted into the pipeline by means of a retriever or a retriever wrench via a pre-installed access device.

Electrical Resistance probe

The ER probe is designed to obtain penetration depth and corrosion rate data by the method of electrical resistance (ER) in pipelines and vessels containing liquid or gaseous mediums or a combination of both. The data from the probe is read and processed using an ER corrosion meter. The material of a sensing element is made of the same material as the pipeline.

Designation	Operating pressure, MPa	Probe length, mm	Recommended pipe diameter, mm	Sensing element material
Probe ER RAST.050000.000-L	4 MPa	300	Laboratory	Steel 3, 20, 12H18N10T, 09G2S, 13HFA
Probe ER RAST.050000.000-06-040	4 MPa	500	89	
Probe ER RAST.050000.000-08-040	4 MPa	700	89 - 219	
Probe ER RAST.050000.000-040	4 MPa	1000	219 - 530	
Probe ER RAST.050000.000-03-040	4 MPa	1200	530 - 720	
Probe ER RAST.050000.000-06-160	16 MPa	500	89	
Probe ER RAST.050000.000-07-160	16 MPa	700	89 - 219	
Probe ER RAST.050000.000-160	16 MPa	1000	19 - 530	
Probe ER RAST.050000.000-03-160	16 MPa	1200	530 - 720	
Upon customer request, the probe length can be from 500 mm up to 6000 mm.				

The ER probe is used together with one of the AkKord ER corrosimeters produced by Sonar. The probe is installed on the pipeline via a pre-installed access device causing no interruption of medium transfer and no product loss. The probe is inserted into the pipeline and removed from it by means of a retriever or a retriever wrench.

Linear Polarization Resistance probe

The object-based two-electrode measuring probe is designed to obtain corrosion rate data by the linear polarization resistance (LPR) method in pipelines and vessels with a water content of at least 50%. The probe rod is made of stainless steel 12X18N10T. The probe design includes a lubricator and a cylindrical body with replaceable pin electrodes. A special shield is used to protect the electrodes against mechanical damage. The data from the probe is read and processed using an LPR corrosion meter.

Designation	Operating pressure, MPa	Probe length, mm	Recommended pipe diameter, mm	Electrodes material
Probe LPR RAST.040000.401-L	4 MPa	400	Laboratory	Steel 3, 20, 12H18N10T, 09G2S, 13HFA
Probe LPR RAST.040000.401-040	4 MPa	1000	219 - 530	
Probe LPR RAST.040000.401-11-040	4 MPa	1200	530 - 720	
Probe LPR RAST.040000.401-20-160	16 MPa	820	219 - 530	
Probe LPR RAST.040000.401-160	16 MPa	1000	530 - 720	
Upon customer request, the probe length can be from 500 mm up to 6000 mm.				

The LPR probe should be used together with one of the AkKord LPR corrosimeters produced by Sonar. In case the original diameter of the electrodes is reduced by more than 15%, they should be replaced with the new ones supplied as a separate order. The probe is designed to be installed on the pipeline via a pre-installed access device causing no interruption of medium transfer and no product loss. The probe is inserted into the pipeline and removed from it by means of a retriever or a retriever wrench.

Injector

The injector is used to spray chemical reagents, e.g. corrosion inhibitors into a pipeline. It consists of a stainless pressure pipe with a shutoff valve, a reinforcement structure, a lubricator and a nozzle. Nozzles are offered in three versions:

– Injection Tube x Nozzle (NN);
– Injection Tube x Quill (NQ);
– Injection Tube x Head (HP).

Designation	Operating pressure, MPa	Injector length, mm	Nozzle type
Injector NN RAST.061020.001-040	4 MPa	1000	NN
Injector NQ RAST.061020.001-040	4 MPa	1000	NQ
Injector HP RAST.061020.001-040	4 MPa	1000	HP
Injector NN RAST.061020.001-160	16 MPa	1000	NN
Injector NQ RAST.061020.001-160	16 MPa	1000	NQ
Injector HP RAST.061020.001-160	16 MPa	1000	HP

Upon customer request, the injector length can be from 500 mm up to 6000 mm.

The injector is installed on liquid and gaseous medium transportation pipelines causing no interruption of medium transfer and no product loss. Injector is inserted into the pipeline and removed from it by means of a retriever or a retriever wrench via a pre-installed access device.

Probe with sampling assembly

The device is used for liquid sampling from a pipeline. The design is based on a cylindrical body made of stainless steel. A shut-off valve, a gooseneck and a lubricator are mounted on the body. The product includes a reinforcement structure which consists of two plates and studs.

Designation	Operating pressure, MPa	Length of the probe with sampling assembly, mm	Recommended pipe diameter, mm
Probe with sampling assembly RAST.139000.001-10-040	4 МПа	500	89
Probe with sampling assembly RAST.139000.001-11-040	4 МПа	720	89 - 219
Probe with sampling assembly RAST.139000.001-040	4 МПа	1000	219 - 530
Probe with sampling assembly RAST.139000.001-05-040	4 МПа	1200	530 - 720
Probe with sampling assembly RAST.139000.001-10-160	16 МПа	500	89
Probe with sampling assembly RAST.139000.001-02-160	16 МПа	720	89 - 219
Probe with sampling assembly RAST.139000.001-160	16 МПа	1000	219 - 530
Upon customer request, the length of the probe with sampling assembly can be from 500 mm up to 6000 mm.			

The probe with sampling assembly is installed on a pipeline causing no interruption of medium transfer and no product loss. The probe with sampling assembly is inserted into the pipeline by means of a retriever or a retriever wrench via a pre-installed access device.

Portable corrosimeter AkKorD ER

The device is designed for reading and processing the data received from the probe by electrical resistance (ER) method. The measuring unit of the device is equipped with a screen showing the measurement results as well as date and time of their receipt. Corrosimeter can service up to 12 corrosion control points saving the measurement results into the internal memory.

For further processing the received data are saved into the PC and can be exported to Microsoft Excel using special software.

Corrosimeter AkKorD ER RAST.428301.004

The corrosimeter may be used both for laboratory and field tests. Corrosion parameters are measured by direct connection of the measurement unit to the sensor (ER probe) pre-installed on a pipeline.

Corrosion rate data can be received directly from the device and shown on the screen. At least two measurements are required to calculate the corrosion rate. The measurement interval depends on the expected corrosion rate at the point where the probe is installed and on the thickness of the sensing element. Between the measurements the corrosimeter should be switched off or be used in other corrosion control points.

Sonar ER probe or any other probe meeting the compatibility requirements is used as a sensor.

The device is designed for reading and processing the data received from the probe by electrical resistance (ER) method. Measurement results as well as their receipt time and date are transmitted to the terminal or PC via hard wire. The device is started and controlled via the data reader. The data transmission channel is implemented on the basis of a standard RS485 interface via Modbus RTU protocol. Corrosimeter can measure both in automatic and in manual mode controlled by an operator.

Corrosimeter AkKorD ER RAST.427678.408

(updated corrosimeter AkKorD ER RAST.427678.407)

The device is installed in immediate vicinity of the sensor (ER probe) on the pipeline. The corrosimeter is connected to the sensor via 5 m object cable.Device electrical connection requires 220VAC switchgear located max 100 m away from ER probe installation area. At least two measurements are required to calculate the corrosion rate.

Portable corrosimeter AkKorD LPR PRO

The device is designed for reading and processing the data received from the probe by linear polarization resistance (LPR) method. It is possible to measure metal corrosion process parameters by LPR method only in conductive liquids (water-in-oil emulsion with water content not less than 50%).

Portable corrosimeter AkKorD LPR PRO RAST.427678.401

(updated portable corrosimeter AkKorD LPR RAST.427678.401)

The corrosimeter may be used both for laboratory and field tests. Corrosion parameters are measured by direct connection of the measurement unit to the LPR probe pre-installed on a pipeline.

The measurement results (corrosion current and corrosion rate) as well as their receipt date and time (data package) are displayed on the measurement unit LCD and saved into an external memory module. If any data needs further processing, the data stored in the memory module can be saved in the PC as a Microsoft Excel table.

The device is designed for reading and processing the data received from the probe by linear polarization resistance (LPR) method.

Automatic measurement mode.

Power supply depends on the version:

- Corrosion meter AkKorD LPR PRO RAST.427678.403 (updated corrosion meter AkKorD LPR RAST.427678.402) - autonomous power supply from Li-ion battery. The duration of autonomous operation is up to 60 days;

- Corrosion meter AkKorD LPR PRO RAST.427678.403-01 (updated mains operated corrosion meter AkKorD RAST.427678.402-01) requires 220VAC switchgear located max 100 m away from LPR probe installation area.

The corrosimeter may be used both for laboratory and field tests. Corrosion parameters are measured by direct connection of the measurement unit to the LPR probe pre-installed on a pipeline.

The measurement results (corrosion current and corrosion rate) as well as their receipt date and time (data package) are saved into an external memory module. If any data needs further processing, the data stored in the memory module can be saved in the PC as a Microsoft Excel table.

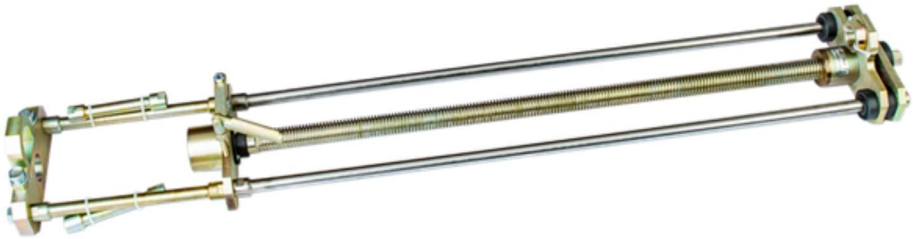
Access device

The device is designed for installation of probes, injectors and probes with sampling assembly causing no interruption of medium transfer and no product loss. The access device consists of a welded fitting, a ball valve and a connecting piece depending on a version. Access devices are selected depending on the steel grade and operating pressure of a pipeline.

Designation	Operating pressure, MPa	Steel grade
Access device RAST.298070.000	4 MPa	Steel 20
Access device RAST.298070.000-03	4 MPa	Steel 09G2S
Access device RAST.298070.000-04	4 MPa	Steel 12H18N10T
Access device RAST.298070.000-05	4 MPa	Steel 13HFA
Access device RAST.298080.000	16 MPa	Steel 20
Access device RAST.298080.000-01	16 MPa	Steel 12H18N10T
Access device RAST.298080.000-02	16 MPa	Steel 09G2S
Access device RAST.298080.000-03	16 MPa	Steel 13HFA

It is installed by welding a fitting to a pipeline. Then a ball valve is installed. After that a hole in a pipe is drilled using a drilling tool. If the access device is 4 Mpa, a connecting piece is fixed to it after installation of a ball valve. After that the device is ready for operation.

Retriever RAST.314195.001



The retriever is used for safe removal and installation of probes, injectors and probes with sampling assembly under pressure up to 16 MPa without pressure reduction and transported medium shutdown. The device can be used only if access device RAST.298080.000 (or its version) has been pre-installed on a pipeline. A retriever is fixed to the access device and the probe. The probe is installed or removed by turning the retriever wrench. This device can be used only with probes, probes with sampling assembly and injectors with max length of 1200 mm.

Retriever wrench RAST.301314.011

It is used for safe removal and installation of probes, injectors and probes with sampling assembly under pressure up to 4,0 MPa without pressure reduction and transported medium shutdown.

Manually actuated tapping tool is used for drilling holes in pipeline under pressure up to 16 MPa without pressure reduction and transported medium shutdown. It is designed as a body with a handle for drilling and a pressure relief valve. A drill supply mechanism, a seal and a drill itself are installed inside the body.

Drilling tool RAST.298000.001

Drilling tool is fixed to a pre-installed access device. There is no interruption of a medium transfer and product loss during drilling. Then the medium which enters the drilling tool body from inside the pipe is drained through a pressure relief valve. After work completion the device is dismantled and the tie-in point is ready for operation.

Coupons

Coupons are used for probes with gravimetric method of corrosion rate measurement. There are three types of coupons:

- strip coupons used in gravimetric probe with strip coupons
- cylindrical coupons used in gravimetric probe with cylindrical coupons. There are 5 or 10 coupons in a set;
- scale coupons are used to find out the amount of scale in pipelines.

Coupon steel grade is selected on the basis of pipeline steel grade.

Seal RAST.040000.417

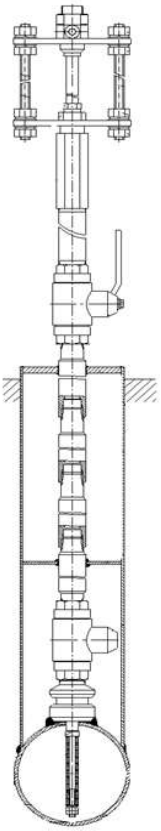
It is used to replace worn-out seals of probes, injectors and probes with sampling assembly designed for operating under pressure up to 4 MPa. 8 pcs are required per unit of equipment.

ANG sleeve

It is used to replace worn-out seals of probes, injectors and probes with sampling assembly designed for operating under pressure up to 16,0 MPa. 7 pcs are required per unit of equipment.

A set of underground equipment

It is used to measure corrosion rate in underground pipelines. The set is configured individually depending on pipeline depth under ground and the selected measurement method.



The sequence of an underground equipment set configuration from pipeline connection:

1. Access device N-RAST.298070.000-01
2. Extension N-RAST.298070.005-01
3. Extension V-RAST.298070.005-02*
4. Access device V-RAST.298070.000-02

*The quantity of V extensions is calculated depending on a pipeline depth

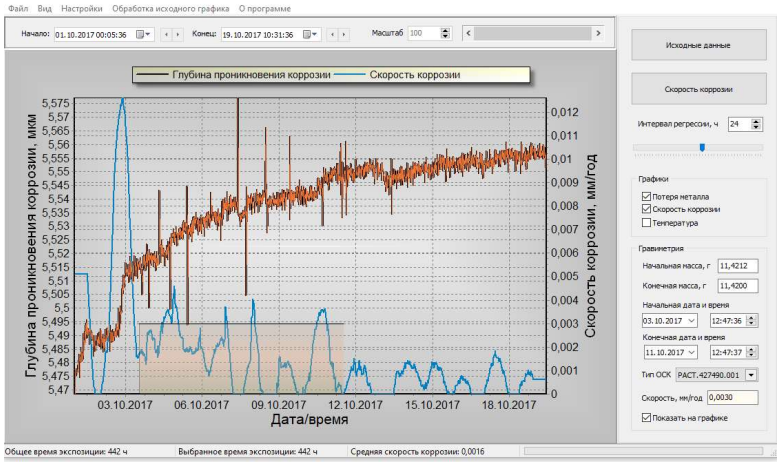
The probe rod depth is calculated depending on a pipeline depth.

Probe depending on the selected method		
Designation	Method	Probe length, mm
Probe with strip coupons	Gravimetric	1200 - 6000
Probe with cylindrical coupons	Gravimetric	
ER probe	ER	
LPR probe	LPR	

In addition to probes, underground injectors and probes with sampling assembly can also be produced.

For correct configuration of an underground equipment set please contact the sales department of Sonar.

MultiCorr is used for collection, storage and analysis of corrosion dynamics data received from Sonar corrosimeters. MultiCorr has been created as a universal and easy-to-use tool.



The function of primary data processing is provided to get a clearer and more informative graph of corrosion rate. The primary data is processed with the help of special features such as median filtering and exclusion of individual measurements.

The data is stored in *.csv or *.xls.

The author's algorithms used allow adequate estimation of the corrosion rate at the selected time interval.

SONAR
scientific and production enterprise

Our patents

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПАТЕНТ

НА ИЗОБРЕТЕНИЕ

№ 2685055

Способ мониторинга углекислотной коррозии в промысловых газопроводах и устройство для его осуществления

Патентообладатель: *Общество с ограниченной ответственностью Научно-производственное Предприятие "СОНАР" (ООО НПП "СОНАР") (RU)*

Авторы: *Блохин Владимир Алексеевич (RU), Маркин Андрей Николаевич (RU), Манжосов Александр Кимович (RU), Дорошинский Антон Юрьевич (RU)*

Заявка № 2018123875
Приоритет изобретения **29 июня 2018 г.**
Дата государственной регистрации в Государственном реестре изобретений Российской Федерации **16 апреля 2019 г.**
Срок действия исключительного права на изобретение истекает **29 июня 2038 г.**

Руководитель Федеральной службы по интеллектуальной собственности

Г.П. Ивлиев

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПАТЕНТ

НА ИЗОБРЕТЕНИЕ

№ 2225594

ИЗМЕРИТЕЛЬ ПАРАМЕТРОВ КОРРОЗИИ

Патентообладатель(ли): *Общество с ограниченной ответственностью Научно производственное предприятие "СОНАР"*

Автор(ы): *Блохин Владимир Алексеевич*

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Срок действия патента истекает **21 апреля 2023 г.**

Генеральный директор Российского агентства по патентам и товарным знакам

А.Д. Корчагин

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПАТЕНТ

НА ИЗОБРЕТЕНИЕ

№ 2720035

ИЗМЕРИТЕЛЬ ЛОКАЛЬНОЙ КОРРОЗИИ ПРОМЫСЛОВЫХ НЕФТЕГАЗОПРОВОДОВ

Патентообладатель: *Общество с ограниченной ответственностью Научно-производственное предприятие "Сонар" (ООО НПП "Сонар") (RU)*

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Заявка № 2019125061
Приоритет изобретения **06 августа 2019 г.**
Дата государственной регистрации в Государственном реестре изобретений Российской Федерации **23 апреля 2020 г.**
Срок действия исключительного права на изобретение истекает **06 августа 2039 г.**

Руководитель Федеральной службы по интеллектуальной собственности

Г.П. Ивлиев

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПАТЕНТ

НА ИЗОБРЕТЕНИЕ

№ 2715474

УСТРОЙСТВО ДЛЯ КОНТРОЛЯ НЕРАВНОМЕРНОЙ КОРРОЗИИ ВНУТРЕННЕЙ ПОВЕРХНОСТИ ТРУБОПРОВОДОВ

Патентообладатель: *Общество с ограниченной ответственностью Научно-производственное предприятие "Сонар" (ООО НПП "Сонар") (RU)*

Авторы: *Блохин Владимир Алексеевич (RU), Дорошинский Антон Юрьевич (RU), Лебедев Александр Борисович (RU), Манжосов Александр Кимович (RU), Маркин Андрей Николаевич (RU)*

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Приоритет изобретения **12 апреля 2019 г.**
Дата государственной регистрации в Государственном реестре изобретений Российской Федерации **28 февраля 2020 г.**
Срок действия исключительного права на изобретение истекает **12 апреля 2039 г.**

Руководитель Федеральной службы по интеллектуальной собственности

Г.П. Ивлиев

ТАМОЖЕННЫЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ТС RU C-RU.ГБ08.А.02499

Серия RU № 0408728

ОРГАН ПО СЕРТИФИКАЦИИ ВЗРЫВОЗАЩИЩЕННОГО ОБОРУДОВАНИЯ ЗАКРЫТОГО АКЦИОНЕРНОГО ОБЩЕСТВА ИСПЫТАТЕЛЬНЫЙ ЦЕНТР ТЕХНИЧЕСКИХ ИЗМЕРЕНИЙ, БЕЗОПАСНОСТИ И РАЗРАБОТОК (ОС ВО ЗАО ТИБР). Место нахождения (адрес юридического лица): 105082, город Москва, улица Фридриха Энгельса, дом 75, строение 11, офис 204, Россия. Адреса места осуществления деятельности: 301668, Россия, Тульская область, город Новомосковск, улица Орджоникидзе, 8; 301760, Россия, Тульская область, город Донской, улица Горноспасательная, дом 1, строение А. Регистрационный номер RA.RU.11ГБ08, дата регистрации аттестата аккредитации органа по сертификации 01.04.2016. Телефон: 8 (495) 280-16-56, адрес электронной почты: pmv@tiber.ru, info@tiber.ru.

ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью Научно-производственное предприятие «СОНАР», ОГРН 1175835000769.

Место нахождения (адрес юридического лица) и адрес места осуществления деятельности: 440056, город Пенза, улица Терновского, дом 135, Российская Федерация.

Телефон: +78005506551, адрес электронной почты: akkord@sonar.penza.com.ru

ИЗГОТОВИТЕЛЬ Общество с ограниченной ответственностью Научно-производственное предприятие «СОНАР», ОГРН 1175835000769.

Место нахождения (адрес юридического лица) и адрес места осуществления деятельности по изготовлению продукции: 440630, город Пенза, улица Гагарина, дом 11а, Российская Федерация.

ПРОДУКЦИЯ Комплект оборудования коррозионного мониторинга "АкКорД +" РАСТ.366640.002, изготовленного в соответствии с техническими условиям РАСТ.366640.002 ТУ. Иные сведения о продукции, обеспечивающие ее идентификацию, смотри Приложение (бланки №№ 0352708, 0352709, 0352710, 0352711, 0352712).

Партия (наименование оборудования и количество указано в Приложении, бланк № 0352707).

Реквизиты товаросопроводительной документации: Накладная № 1 от 31.03.2017 на передачу готовой продукции в места хранения.

КОД ТН ВЭД ТС согласно Приложения (бланк № 0352707)

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза «О безопасности оборудования для работы во взрывоопасных средах» (ТР ТС 012/2011).

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ Протокола испытаний № 2418/2292-Ех от 18.05.2017 Испытательной лаборатории взрывозащищенного оборудования Закрытого акционерного общества Испытательный Центр Технических Измерений, Безопасности и Разработок, регистрационный номер аттестата аккредитации RA.RU.21ГБ08. Технической документации изготовителя. Схема сертификации 3с.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Сведения о стандартах, в результате применения которых на добровольной основе обеспечивается соблюдение требований технического регламента, приведены в Приложении (бланк № 0352714). Условия и сроки хранения, срок службы (годности) приведены в Приложении (бланк № 0352710).

СРОК ДЕЙСТВИЯ С 24.05.2017 **ПО** не установлен **ВКЛЮЧИТЕЛЬНО**

М.П.

Руководитель (уполномоченное лицо) органа по сертификации (подпись) Пономарев Михаил Валерьевич (инициалы, фамилия)

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) (подпись) Ермаков Андрей Александрович (инициалы, фамилия)

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

EAC

№ ЕАЭС RU C-RU.HA65.B.00498/20

Серия RU № 0215178

ОРГАН ПО СЕРТИФИКАЦИИ продукции Общества с ограниченной ответственностью «ТехБезопасность» (ОС ООО «ТехБезопасность») Адрес места нахождения юридического лица: 127486, Россия, город Москва, улица Дегунинская, дом 1, корпус 2, этаж 3, помещение 1, комната 19. Адреса мест осуществления деятельности в области аккредитации: 105066, Россия, город Москва, улица Нижняя Красносельская, дом 35, строение 64, комната 22 "в"; 301668, Россия, Тульская область, город Новомосковск, улица Орджоникидзе, дом 8 пристроенное нежилое здание – пристройка к цеху № 3, 3 этаж, помещение 4 и помещение 10. Номер аттестата аккредитации (регистрационный номер) RA.RU.11HA65. Дата внесения в реестр сведений об аккредитованном лице - 10.08.2018. Телефон: +74952081646, адрес электронной почты: teh-bez@inbox.ru.

ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью Научно-производственное предприятие «Сонар». Основной государственный регистрационный номер 1175835000769.
Место нахождения (адрес юридического лица): 440056, Российская Федерация, область Пензенская, город Пенза, улица Терновского, дом 135. Адрес места осуществления деятельности: 440004, Российская Федерация, область Пензенская, город Пенза, улица Центральная 1В. Телефон: +78005506551. Адрес электронной почты: akkord@sonar.penza.com.ru.

ИЗГОТОВИТЕЛЬ Общество с ограниченной ответственностью Научно-производственное предприятие «Сонар».
Место нахождения (адрес юридического лица): 440056, Российская Федерация, область Пензенская, город Пенза, улица Терновского, дом 135. Адрес места осуществления деятельности по изготовлению продукции: 440004, Российская Федерация, область Пензенская, город Пенза, улица Центральная 1В.

ПРОДУКЦИЯ Комплект оборудования коррозионного мониторинга "АкКорД +" РАСТ.366640.002, изготовленного в соответствии с техническими условиям РАСТ.366640.002 ТУ «Комплект оборудования коррозионного мониторинга "АкКорД +"».
Иные сведения о продукции, обеспечивающие ее идентификацию, согласно приложению (бланки №№ 0724843, 0724844, 0724845, 0724846, 0724847, 0724848).
Серийный выпуск.

КОД ТН ВЭД ЕАЭС согласно приложению (бланк № 0724843)

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технического регламента Таможенного союза «О безопасности оборудования для работы во взрывоопасных средах» (ТР ТС 012/2011)

СЕРТИФИКАТ СООТВЕТСТВИЯ ВЫДАН НА ОСНОВАНИИ Протокола испытаний № 0418-НИ-01 от 02.03.2020 Испытательной лаборатории взрывозащищенного оборудования Общества с ограниченной ответственностью "ТЕХБЕЗОПАСНОСТЬ", аттестат аккредитации RA.RU.21HB54 от 26.03.2018. Акта анализа состояния производства изготовителя № 0418-АСП от 11.07.2019. Технической документации изготовителя согласно приложению (бланки №№ 0724848, 0724849, 0724850). Схема сертификации 1с.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Стандарты и иные нормативные документы, применяемые при подтверждении соответствия, приведены в приложении (бланк № 0724851). Условия и сроки хранения, срок службы (годности) приведены в приложении (бланк № 0724844).

СРОК ДЕЙСТВИЯ С 02.03.2020 **ПО** 01.03.2025 **ВКЛЮЧИТЕЛЬНО**

Руководитель (уполномоченное лицо) органа по сертификации (подпись) Шмелев Антон Андреевич (Ф.И.О.)

М.П.

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) (подпись) Ермаков Андрей Александрович (Ф.И.О.)

Sonar constantly improves and modifies its production line. This leaflet suggests a brief description of serial items.

Since 2021 it is planned to release the products designed to be installed on pipelines with a pressure of up to 25,0 MPa. Our specialists are working on the design of prototypes of equipment designed for pressures up to 41,0 MPa.

Individual approach and flexible price policy for our clients results in:

- prompt selection of equipment to meet the customer's needs;
- confidence about the quality of the purchased product;
- warranty and post-warranty service;
- customized equipment production;
- comfortable conditions for cooperation;
- technical support of the project;
- minimum manufacturing time.

Considering wide experience in designing and manufacturing of corrosion monitoring equipment Sonar is ready to develop and manufacture customized equipment according to the customer's specification.

For equipment selection and technical support of projects
please contact our specialists:
+7 (8412) 280-060,
8 800 550-6-551
or by email:
info@npp-sonar.ru