

KSC POLAND Sp. z o.o.

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

(3) EU-Type Examination

Certificate No.: **KSCP 25ATEX0025X**, Issue: 0

(4) Product:

Smart positioner RTP-4400 Type

(5) Manufacturer:

Rotork YTC Limited

(6) Address:

**81, Hwanggeum-ro, 89 Beon-gil, Yangchon-eup,
Gimpo-si, Gyeonggi-do, Postal code: 10048,
Korea, Republic of**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KSC POLAND Sp. z o.o., Notified Body number 2877, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **KSCP/AR/25/Q00416**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018
EN 60079-11:2012**

**EN IEC 60079-1:2014
EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU – Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 GD Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T85°C/100°C/T135°C Db or**

 **II 1 GD Ex ia IIC T6/T5/T4 Ga, Ex ia IIIC T₂₀₀85°C/100°C/T135°C Da**



Katowice, 23th September, 2025

Signature
in the name of Notified Body



KSC POLAND Sp. z o.o., Products Certification Body, accredited by PCA, No. AC 216

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(15) Description of Product:

The smart positioner RTP-4400 accurately controls valve stroke in response to an input signal of 4-20 mA from an external controller. The unit comprise an enclosure made in aluminium where the electronic and pneumatic parts are installed. The enclosure includes two compartments that can be accessed by the end user. The first is the compartment with the block terminals. The second is the compartment with the display and push buttons. Equipment is designed to be considered as multi-type of protection equipment that can be used in high risk areas requiring EPL Ga/Da, provided by Ex ia type of protection, or less hazardous zones requiring EPL Gb/Db provided by Ex db and Ex tb type of protection. The enclosure fulfills ingress protection IP66 requirements.

Ratings:

EPL Gb/Db level of protection:

Specifications	Entity parameters
Power Supply:	Loop powered from 4-20 mA control signal
Minimum Operating Current	3.8 mA
Load Voltage	11.0 VDC at 20 mA DC 10.0 VDC at 4 mA DC
Control System Compliance Voltage	28 VDC max.
Digital Communication	HART 7
4-20 mA Analog Output (Optional)	One isolated output signal: 4-20mA Supply voltage: 9-28 VDC NAMUR NE43: Failure high (> 21 mA) or Failure low (< 3.6 mA).
Discrete Switch Input (Optional)	One isolated input. Maximum supply voltage: 30 VDC, Max. 4 mA. OFF at 0-5 VDC, ON at 10-30 VDC
Discrete Switch Output (Optional)	Two isolated outputs Maximum supply voltage: 30 VDC Max. ON state current ≤ 1A ON state voltage drop ≤ 1V OFF state current: ≤ 0.2mA
Ingress protection	IP 66



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EPL Ga/Da level of protection:

Terminal name	Signal	Entity parameters
IN+, IN-	Current input signal (+) (-)	Ui = 28 V, li = 100 mA, Pi = 0.656 W Li = 10 µH, Ci = 2.59 nF
AO+, AO-	Analog output signal (+), (-)	Ui = 28 V, li = 115 mA, Pi = 0.7 W Li = 10 µH, Ci = 0.55 nF
DO1+, DO1-	Digital output signal 1 (+), (-)	Ui = 30 V, li = 100 mA, Pi = 0.656 W Li = 0 µH, Ci = 0.55 nF
DO2+, DO2-	Digital output signal 2 (+), (-)	Ui = 30 V, li = 100 mA, Pi = 0.656 W Li = 0 µH, Ci = 0.55 nF
DI+, DI-	Digital input signal (+), (-)	Ui = 30 V, li = 100 mA, Pi = 0.656 W Li = 0 µH, Ci = 0.55 nF
	Safety earthing	N/A

Temperature class for Group II	Surface temperature for Group III	Ambient temperature range
T6	T ₂₀₀ 85°C	-40 °C ¹⁾ to +70 °C
T5	T ₂₀₀ 100°C	-40 °C ¹⁾ to +80 °C
T4	T ₂₀₀ 135°C	-40 °C ¹⁾ to +85 °C
NOTE 1: When the model RTP-4400-***-***-***-L is selected (Extreme temperature option), the minimum ambient temperature is -55 °C.		
Ingress protection		IP 66

(16) Report Number:

– **KSCP/AR/25/Q00416**

(17) Specific Conditions of Use:

- In accordance with clause 5.1 of EN 60079-1, the flameproof joints of the equipment shall not be repaired by the end user.
- The flameproof enclosure must be equipped with fasteners with a strength class of A2-70 or higher.



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- Parts of the enclosure are made of non-conductive materials – The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- Enclosure is made in aluminium – when the RTP-4400 is installed in areas requiring equipment EPL Ga, the enclosure shall be protected from vertically falling objects, rubbing or friction by other parts.
- The temperature at the cable entry and cable branching points of the equipment may exceed +70°C and +80°C respectively. A suitable cable shall be used for installation.

(18) Essential Health and Safety Requirements:

Essential Health and Safety Requirements are ensured by conformity with standards listed at item 9 of this certificate.

(19) Drawings and Documents:

- Documentation agreed, provided by manufacturer:

Title:	Drawing No.:	Rev. Level:	Date:
SMART POSITIONER ASS'Y DWG	SRTP-4400	1	2025.06.10
4400 ASS'Y SECTION	S4400-01	2	2025.07.29
4400 WIRING DIAGRAM	S4400-02	0	2025.02.12
BODY BASE	S4400F BA 01 Lx	M1	2025.06.10
COVER BASE	S4400F ET 01 L1	1	2025.06.10
MANIFOLD	S4400F PL 01 L1	1	2025.06.10
COVER TERMINAL	S4400F ET 02 L1	1	2025.06.10
GLASS COVER	S4400F ET 22 M1	0	2025.02.12
ASSY-SINTER FILTER	S4400F PL 09 A1	0	2025.02.12
PLUG FILTER	S4400F BA 02 L1	0	2025.02.12
SINTER FILTER	S4400F BA 04 M1	0	2025.02.12
ASSY-PCB LCD	S4400F ET 16 A1	1	2025.06.10
ASSY-PCB MAIN	S4400F ET 17 A1	1	2025.06.10



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ASSY-PCB TERMINAL MAIN	S4400F ET 18 A1	1	2025.06.10
ASSY-PCB TERMINAL OPTION	S4400F ET 19 Ax	M1	2025.06.10
ASSY-TERMINAL	S4400F ET 24 Ax	M0	2025.02.12
SHAFT BUTTON	S2400F ET 04 L1	2	2025.07.31
SHAFT EX	S3400F PL 03 L1	3	2025.07.31
SHAFT EX-1	S3400F PL 04 L1	3	2025.07.31
PLUG BLIND	S1000F JB 04 L2	4	2025.07.31
BLIND PLUG	S1000F JB 04 L4	4	2025.07.31
ASSY MOTOR COIL	S3300F TM 03 A1	4	2024.04.23
PLATE NAME	S4400F ST 01 P1	2	2025.07.21
COVER BUTTON	S4400F ET 03 L1	1	2025.07.29
SEAL BUTTON	S4400F ET 12 M1	0	2025.06.10
GASKET GLASS	S4400F ET 10 P1	0	2025.06.10
SEAL GLASS	S4400F ET 14 M1	0	2025.06.10
SEAL BLOCK TM	S4400F PL 05 M1	0	2025.06.10
SEAL COVER PILOT	S4400F PL 07 M1	0	2025.06.10
CHECK VALVE	S4400F PL 12 M1	0	2025.06.10
CHECK VALVE FILTER	S4400F BA 03 M1	0	2025.06.10
COVER VENT	S3300F BA 07 M1	3	2025.07.31
BLOCK TM	S4400F PL 02 L1	0	2025.06.10
BOLT COVER	S4400F ET 35 L1	0	2025.06.10
RTP-4400-Main	Part list	0	2025.02.10
RTP-4400-LCD	Part list	1	2025.06.18
RTP-4400-Terminal Main	Part list	0	2025.02.10
RTP-4400-Terminal Option	Part list	0	2025.02.10
RTP-4400-Torque Motor	Part list	0	2025.07.22
YTC-MODULE1	Part list	0	2025.07.22
RTP-4400-Block Diagram	YT-RTP4400-BLD-SC-01-01	0	2025.02.05


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RTP-4400-Main	YT-RTP4400-MAIN-SC-01-01	0	2025.02.05
RTP-4400-Linear & Rotary Sensor(Main)	YT-RTP4400-M-LRS-SC-01-0	0	2025.02.05
RTP-4400-Digital- IN & OUT(Terminal-Option)	YT-RTP4400-Option_DIO-SC-01-01	0	2025.02.05
RTP-4400-P-SENSOR & IO(Main)	YT-RTP-4400-P-SIO-SC-01-01	0	2025.02.05
RTP-4400-HART, PTM(Main, Terminal-Main, Option)	YT-RTP4400-HP-SC-02-01	0	2025.02.05
RTP-4400-Torque-Motor-Bd	YT-RTP4000-TM-SC-01-01	0	2024.03.08
YTC-MODULE1	YT-YTC_MD1-SC-03-01	2	2019.01.09
RTP-4400-Main-Topsilk	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Main-Top	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Main-Gnd	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Main-Vcc	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Main-Bottomsilk	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Main-Bottom	YT-RTP4400-MN-LY-01-00	0	2025.02.05
RTP-4400-Lcd-Topsilk	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Lcd-Top	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Lcd-Gnd	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Lcd-Vcc	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Lcd-Bottomsilk	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Lcd-Bottom	YT-RTP4400-LCD-LY-01-00	1	2025.06.17
RTP-4400-Terminal-Main-Topsilk	YT-RTP4400-TM-LY-01-00	1	2025.02.25
RTP-4400-Terminal-Main-Top	YT-RTP4400-TM-LY-01-00	1	2025.02.25


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RTP-4400-Terminal-Main-Gnd	YT-RTP4400-TM-LY-01-00	1	2025.02.25
RTP-4400-Terminal-Main-Vcc	YT-RTP4400-TM-LY-01-00	1	2025.02.25
RTP-4400-Terminal-Main-Bottomsilk	YT-RTP4400-TM-LY-01-00	1	2025.02.25
RTP-4400-Terminal-Main-Bottom	YT-RTP4400-TM-LY-01-00	1	2025.02.25
RTP-4400-Terminal-Option-Top	YT-RTP4400-TO-LY-01-00	0	2025.02.05
RTP-4400-Terminal- Option-Gnd	YT-RTP4400-TO-LY-01-00	0	2025.02.05
RTP-4400-Terminal- Option-Vcc	YT-RTP4400-TO-LY-01-00	0	2025.02.05
RTP-4400-Terminal- Option-Bottomsilk	YT-RTP4400-TO-LY-01-00	0	2025.02.05
RTP-4400-Terminal- Option-Bottom	YT-RTP4400-TO-LY-01-00	0	2025.02.05
RTP-4400-TM-Topsilk	YT-RTP-4400_TM-LY-01-00	0	2025.02.05
RTP-4400-TM-Top	YT-RTP-4400_TM-LY-01-00	0	2025.02.05
RTP-4400-TM-Bottomsilk	YT-RTP-4400_TM-LY-01-00	0	2025.02.05
RTP-4400-TM-Bottom	YT-RTP-4400_TM-LY-01-00	0	2025.02.05
YTC-Module1-Topsilk	YT-MD1-LY-01-01	1	2019.01.09
YTC-Module1-Top	YT-MD1-LY-01-01	1	2019.01.09
YTC-Module1-Bottomsilk	YT-MD1-LY-01-01	1	2019.01.09
YTC-Module1-Bottom	YT-MD1-LY-01-01	1	2019.01.09

– Product instruction:

Title:	Document No.:	Rev. Level:	Date:
RTP-4400 Smart Positioner(42 sheets)	Product Manual	Ver. 1.01	2025.09.18



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A detailed list of documents necessary to identify the approved type is included in the Report referred to in point 16 of this certificate.

(20) Certificate history:

Issue	Issue date	Notes
0	23 th September, 2025	Initial certification



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