[1]	EC-TYPE EXAMINATION CERTIFICATE								
	(Ex)								
[2]	Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC								
[3]	EC-Type Examination Certificate Number: DEMKO 09 ATEX 0815573X Rev. 3								
[4]	Equipment or Protective System: Pressure and Temperature Switches								
[5]	Manufacturer: United Electric Controls Co.								
[6]	Address: 180 Dexter Avenue, PO Box 9143, Watertown, MA 02472 USA								
[7]	This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.								
[8]	UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems 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. 4786845202								
[9]	Compliance with the Essential Health and Safety Requirements has been assured by compliance with:								
	EN 60079-0:2012+A11:2013 EN 60079-1:2007 EN 60079-31:2014								
[10]	If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.								
[11]	This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.								
[12]	The marking of the equipment or protective system shall include the following:								
	(€x) II 2 G Ex d IIC T6 Gb								
	(€x) II 2 D Ex tb IIIC T85°C Db IP66								
) (મ	Certification Manager Jan-Erik Storgaard January of the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow- Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements so The test results may not be used, in whole or in part, in any other document without UL's prior written approval.								

Date of issue: 2009-04-28 Re-issued: 2015-07-23 U

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

00-IC-F0056 - Issue 10.0

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 09 ATEX 0815573X Rev. 3

Report: 4786845202

[13]

[14]

Maria													
Nom	Nomenclature for Type 120, 121 and 122 Pressure Switches:												
Exan	mple:												
	Q J 120 P S164B 3000 XC007 12345 I II III IV V VI VII VIII												
	End-User Destination None - International/Domestic Q - International/Domestic, Internal Reference Only												
	Device Calibration H - Calibrated with External Adjustment J - Uncalibrated												
III.	Type Designation 120 - Single Snap Switch 121 - Single Snap Switch with External Adjustment 122 - Two Snap Switches with External Adjustment												
IV.	Sensing Method None - Straight Vacuum or Gauge Pressure Sensing K - Differential Pressure Sensing P - Common Adjustment												
v.	Pressure Sensor Designation Two to five character/digit alphanumeric code indicating one of the pressure sensor models shown in the relevant Cer	rtific											
	Drawing	Tune											
VI.	Drawing Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing												
VI. VII.	Internal Snap Switch Designation												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M440 – Cover chain option												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M440 – Cover chain option M540 – Viton diaphragm construction M542 – AFLAS diaphragm construction												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M540 – Viton diaphragm construction M542 – AFLAS diaphragm construction M550 – Alternate fitting M913 – 1/4 in. NPT Stainless Steel pressure connection M914 – 1/2 in. NPT Stainless Steel pressure connection												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M540 – Viton diaphragm construction M542 – AFLAS diaphragm construction M550 – Alternate fitting M913 – 1/4 in. NPT Stainless Steel pressure connection M915 – 1/4 in. NPT Monel pressure connection M915 – 1/4 in. NPT Hastelloy C pressure connection M917 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M440 – Cover chain option M540 – Viton diaphragm construction M550 – Alternate fitting M913 – 1/4 in. NPT Stainless Steel pressure connection M915 – 1/4 in. NPT Monel pressure connection M916 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Aluminium pressure connection M919 – 1/4 in. NPT Aluminium pressure connection M919 – 1/2 in. NPT Aluminium pressure connection M920 – 1/2 in. NPT Aluminium pressure												
	Internal Snap Switch Designation Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing Miscellaneous Options Four to five character/digit alphanumeric code not affecting electrical ratings or pressure ratings: None – No options(s) employed M210 – Mechanically operated pressure indicator M430 – Cover lock option M440 – Cover chain option M542 – AFLAS diaphragm construction M550 – Alternate fitting M913 – 1/4 in. NPT Stainless Steel pressure connection M914 – 1/2 in. NPT Monel pressure connection M915 – 1/4 in. NPT Monel pressure connection M916 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Aluminium pressure connection M918 – 1/2 in. NPT Aluminium pressure connection M918 – 1/2 in. NPT Hastelloy C pressure connection M918 – 1/2 in. NPT Aluminium pressure connection												

Schedule EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 09 ATEX 0815573X Rev. 3

Report: 4786845202

Exampl	0.									
		Q	F	820	Р	13611	3000	W10015	12345	
		1	П		IV	V	VI	VII	VIII	
U	End-User Destinat None - Internationa Q - International/Do	l/Dor			Referen	ice Only				
<u>પ</u> િ	Device Calibration None - Remote terr from the explosion- B - Calibrated Loca C - Uncalibrated Lo E - Calibrated Rem F - Uncalibrated Rem	npera proof Il Ter ocal T ote T	f encl npera Tempe Tempe	osure c ture Se erature erature	ontainii nsor Sensoi Sensoi	ng the sna			d temperature indication in a separate enclosure ted wiring	
	Type Designation 120 - Single Snap S 121 - Single Snap S 122 - Two Snap Sw 820 - Single Snap S 822 - Two Snap Sw	Switc Switc vitche Switc	h with es with h with	n Extern h Extern h Extern	nal Adju nal Adju nal Terr	ustment ustment operature				
IV.	Sensing Method None - Local or Ren E - External Tempe P - Common Adjust	eratur	re Ind		e Sens	ing				
v.	Temperature Sensor Designation Two to five character/digit alphanumeric code indicating one of the temperature sensor models shown in the relevant Certification Drawing									
vi.	Internal Snap Swit				e of th	e Internal	Snap Swi	tch models s	shown in the relevant Certification Drawing	
/11.	Miscellaneous Op Four to five charact			hanum	eric co	de not aff	ecting ele	ctrical ratings	s or temperature ratings of the device	
	None – No options(M430 – Cover lock M440 – Cover chair W Series - Follower	optic n opt	on tion		9 or 10	0, followe	d by a nur	mber 1 throu	gh 15. Denotes separable well option	
	Customer Specific Five character/digit specification code				de indic	cating terr	perature	range and m	iscellaneous options; equivalent to a customer	
	ature range bient temperature ran	ge is	-40 °	C to +7	5 °C.					
The am Electric	al data 480 Vac max, 30 A									
The am Electric Supply	480 Vac max, 30 A tion instructions All cable entry devic for the conditions of	f use	and	correctl	y instal	led.			osion protection flameproof enclosure 'd', suitable	
The am Electric Supply Installat	480 Vac max, 30 A tion instructions All cable entry devia for the conditions of Field wiring must be ng instructions	f use e rate	and o ed 90°	°C mini	y instal mum. F	led. For ambie	nt tempera	atures below		

Routine tests Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

Descriptive Documents.

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EC-Type Examination Certificate.

[16]

Γ.

[13]

[14]

[17]

Schedule EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 09 ATEX 0815573X Rev. 3

Report: 4786845202

Specific conditions of use:

- Dimensions of flameproof joints are other than the relevant minimum or maximum specified in Tables 1 through 2 of EN 60079-1:2007. Pressure and temperature operated switches are to be marked with an "X" and manufacturer's installation instructions (Drawing Nos. IMT120 and IMP120) detail the dimensions of the flameproof joints.
- For Group III equipment, manufacturer's installation instructions (Drawing Nos. IMT120 and IMP120) provide guidance for the user to minimize the risk from electrostatic discharge.

[18] Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The Pressure and Temperature Operated Switches have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.