EC-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC

- [3] EC-Type Examination Certificate Number: **DEMKO 11 ATEX 1105261X Rev. 1**
- [4] Equipment or Protective System: Intrinsically Safe Pressure or Temperature Switches
- [5] Manufacturer: United Electric Controls Co.

[2]

- [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. 4786503672

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-11:2012 EN 60079-26:2007

- [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:

⟨Ex⟩ II 1 G Ex ia IIC T6 Ga

Certification Manager
Jan-Erik Storgaard

This is to certify that 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 or Directives. 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: 2011-12-06 **Re-issued:** 2014-08-05

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark

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[14]

Schedule

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 11 ATEX 1105261X Rev 1 Report: 4786503672

[15]

Description of Equipment or protective system

The pressure and temperature operated switches consist of a stainless steel or aluminium housing containing a single or dual micro switch which can be operated by an operating rod ensuring an internal joint with the enclosure. The electrical wires are permanently mounted by the manufacturer and cannot be replaced.

Type: 6 Series, 10 Series, 12 Series, 21K Series, 100 Series, 117 Series, 120 Series, 400 Series.

6 Series J I	6D II	12345 III	2200 IV	M123 V
I. J	Type Designation Uncalibrated			
II.	Series and Model Designation			

6 Non-adjustable differential pressure sensor switch
6D Adjustable differential pressure sensor switch

III. Model Designation

May be three to five digit numerical or alphabetical suffix indicating pressure range and sensing element not to exceed 6000 psi, not affecting electrical ratings of the device; equivalent to a customer specification number

Internal Switch Designation
 May be a four digit number indicating switch designation

 Option Designation

Option Designation
May be a four digit numerical or alphabetical suffix not affecting electrical ratings or pressure ratings of the device

10 Series 10	A II	10 III	12345 IV	1100 V	M123 VI
I. 10	Series Desig Cylindrical p	gnation ressure sensor switch			
II. A B C D E	0.11 in push				

F DIN male connector
G 5 ft. cord

III. Pressure Range Designation

Diaphragm 10 - 4 - 50 psi
11 - 10 - 150 psi
12 - 30 - 600 psi

Piston 13 - 100 - 1500 psi
14 - 180 - 3000 psi

13 - 100 - 1300 psi 14 - 180 - 3000 psi 15 - 400 - 4700 psi 16 - 4000 - 7500 psi

May be a three to five digit numerical or alphabetical suffix indicating pressure range and sensing element not to exceed 7500 psi, not affecting electrical ratings of the device; equivalent to a customer specification number

V. Internal Switch Designation

May be a four digit number indicating switch designation

VI. Option Designation

May be a four digit numerical or alphabetical suffix not affecting electrical ratings or pressure ratings the device

[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 11 ATEX 1105261X Rev 1 Report: 4786503672

12 Serie	s					
12	VII. V	SH	DM	IA	12345	M123
YL.		$HL\Lambda \Psi LJ$		IV	V	VI
	12	Series Designation Pressure sensor sw	.itala			
	12	Pressure sensor sw	ilch			
II.		Sensor Type and St	witch Rating Designa	tion		
	SH	Stainless Steel hous		alon		
	SL	Stainless Steel hous				
			/11: W II:			
III.	ヘンレハ		ectrical Connection D		$\Lambda^{TL}\Lambda^{Tl}$	
	DM			metric thread electrical		
	DN SM			T electrical connection netric thread electrical of		
	SN			electrical connection	Johnection	
		or by (onigio polo,	double throw, 72141 1	Ciccuitati Comicotion		
IV.		Model Designation				
				ical suffix indicating pre		
			ot affecting electrical	ratings of the device; e	quivalent to a custome	er specification
		number				
V.		Customer Specifica	tion Number Designa	ation		
				electrical ratings or pre	ssure ratings of the de	vice
VI.		Option Designation				
			numerical or alphabe	tical suffix not affecting	electrical ratings or pr	ressure ratings of
		the device				
U.I		U. YU. Y	(Ur X Ur	M.Ur M Ur	M.Ur M Ur	i.X.Ui X Ui
12		SH	DM III	IA IV	12345	M123 VI
		1	""	IV	V	VI
VI.	$\Lambda_0 \Psi L \Lambda$	Series Designation	(UL A UL			
	12	Temperature senso	r switch			
II.		Sensor Type and Sy	witch Rating Designa	tion		
	SH	Stainless Steel hous				
	SL	Stainless Steel hous	sing material			
		0 11 7 151				
III.	DM		ectrical Connection D	netric thread electrical	connection	
	DN			T electrical connection		
	SM			etric thread electrical of		
	SN	SPDT (single-pole,	double throw) 1/2 NPT	electrical connection		
		11				
IV.		Model Designation		inal auffix indication to		anaina alamant
				ical suffix indicating ter ig electrical ratings of the		sensing element
		Hot to exceed 545 e	(000 i), not ancoun	ig ciccincal ratings of the	iic acvice.	
V.		Customer Specifica	tion Number Designa	ation		
		May be a five digit n	number not affecting e	electrical ratings or tem	perature ratings of the	edevice
\"		Ontion Design				
VI.		Option Designation	numerical or alphaba	tical suffix not affecting	electrical ratings or to	mnerature ratings
		of the device	iumencai oi aipilabe	lical sullix flot affecting	electrical ratings of te	inperature ratings
		J. 110 40 VIO				



[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 11 ATEX 1105261X Rev 1

		Re	port: 4786503672		
21K S	eries	21K	12345	2200	M123
) i		i i i	III	IV	V
L		Гуре Designation Jncalibrated			
		Series and Model Designat Adjustable differential press			
	Λ $^{\perp}$ $^{\parallel}$				nge and sensing element not to stomer specification number
IV.		nternal Switch Designation May be a four digit number		ion	
V.		Option Designation May be a four digit numeric device	al or alphabetical suffix no	t affecting electrical rating	s or pressure ratings of the
100 S	eries				
В	V/	100	12345	3000	M123
. ДЧ L		VARVATV		IV	
I.		Sensor Type and Ad	djustment Designation		
	В	Local temperature se	ensor, internal knob adjust		
	C		ensor, internal plunger adj		
	F		e sensor, internal knob adji e sensor, internal plunger a		
II.	100	Series Designation Temperature sensor		U _I)(U _I)(U	
			ed 538°C (1000°F), not affe		perature range and sensing the device; equivalent to a
IV.		Internal Switch Design May be a four digit n	gnation number indicating switch de	esignation	
V.		Option Designation May be a four digit n of the device	numerical or alphabetical s	uffix not affecting electrica	al ratings or temperature ratings
ᄉ		1001/	12245	3000	M122
H		100K II	12345 III	3000 IV	M123 V
UŁ	_H U _I	Type Designation Uncalibrated			
)(Ui	100 100K	Series and Model De Pressure sensor swi Differential pressure	itch		
III.		Model Designation			
)(U _L		May be three to five	psi, not affecting electrical		sure range and sensing elemen ivalent to a customer
IV.		Internal Switch Design May be a four digit n	gnation number indicating switch de	esignation	
V.		Option Designation May be a four digit n	numerical or alphabetical s	uffix not affecting electrica	al ratings or pressure ratings of

[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 11 ATEX 1105261X Rev 1

Report: 4786503672

117 Se	ries					
H		117K II	12345 III	1100 IV	M123 V	
		Type Designation				
YU	н	Pressure-operated	I, uncalibrated			
II.		Series and Model	Designation			
	117 117K		witch with one snap switc re sensor switch with one			
III.		Model Designation				
			eed 3500 psi, not affectin		ing pressure range and sei the device; equivalent to a	
IV.		Internal Switch De May be a four digit	signation number indicating switch	designation		
V.		Option Designation May be a four digit the device		I suffix not affecting el	ectrical ratings or pressure	ratings of
В		117 II	12345 III	1100 IV	M123	
)(UL	B E	Type Designation Local temperature Remote temperature	sensor, calibrated ire sensor, calibrated			
II.	117	Series and Model Temperature sens	Designation or switch with one snap s	witch provided		
UL.			re digit numerical or alpha eed 566°C (1050°F), not a		g temperature range and s ngs of the device; equivale	
IV.		Internal Switch De May be a four digit	signation number indicating switch	designation		
V.		Option Designation May be a four digit of the device		I suffix not affecting el	ectrical ratings or tempera	iture rating
120 S	eries					
Н	01100	120	K	12345	3000	M123
X U		YU, YU,	У Ш - У/U - У	IV	V	/1
		Type Designation				
	Н	Pressure-operated	I, calibrated			
	J	Pressure-operated		(UI X.UI)	K UJ X UJ X	UI X
	QH				al bonding terminal, enclos	ure vent
	QJ	Pressure-operated	plate and may also have a l, uncalibrated, equipped volate and may also have a	with a cover lock, exte	rnal bonding terminal, enc	losure vent
JI.		Series and Model	Designation			
II.	120		Designation witch witch with one snap switch	h provided		
			witch with one snap switch			
	121					

[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

	K P None	Differential pre Common adju	n and Designation essure sensing provide stment provided istment provided	ed		
IV.			to five digit numerical 6000 psi, not affecting	or alphabetical suffix indig electrical ratings of the o		
V.		Internal Switch May be a four	n Designation digit number indicatin	g switch designation		
VI.		Option Design May be a four the device		nabetical suffix not affecti	ng electrical ratings or	r pressure ratings of
В		120	Р	12345	3000	M123
		ll l	III	IV	V	VI
)(Ui						
L.		Type Designa				
	В		ture sensor, calibrate			
	C		ture sensor, uncalibra			
	E		erature sensor, calibra			
	F. L.		erature sensor, uncalib			
	QB	Local tempera	ture sensor, calibrated	d, equipped with a cover	lock, external bonding	terminal, enclosure
				y also have a second cor		
	QC	Local tampara				
	~~			ited, equipped with a cov		
		enclosure ven	t holes and a namepla	ate and may also have a	second conduit conne	ction
	QE	enclosure ven	t holes and a namepla		second conduit conne	ction
	QE	enclosure ven Remote tempe enclosure ven	t holes and a namepla erature sensor, calibra t holes and a namepla	ate and may also have a stated, equipped with a coverte and may also have a state and may also h	second conduit conne- er lock, external bondi second conduit conne-	ction ing terminal, ction
		enclosure ven Remote tempe enclosure ven Remote tempe	t holes and a namepla erature sensor, calibra t holes and a namepla erature sensor, uncalit	ate and may also have a stated, equipped with a covorte and may also have a stated, equipped with a contracted, equipped with a contracted.	second conduit conne- er lock, external bondi second conduit conne- over lock, external bor	ction ing terminal, ction nding terminal,
	QE QF	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven	t holes and a namepla erature sensor, calibra t holes and a namepla erature sensor, uncalib t holes and a namepla	ate and may also have a stated, equipped with a covorte and may also have a stated, equipped with a counted, equipped with a counted and may also have a stated.	second conduit conne- er lock, external bondi second conduit conne- over lock, external bor second conduit conne-	ction ing terminal, ction nding terminal, ction
	QE	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe	t holes and a namepla erature sensor, calibra t holes and a namepla erature sensor, uncalil t holes and a namepla erature sensor with tel	ate and may also have a stated, equipped with a covorte and may also have a stated, equipped with a corrected, equipped with a corrected and may also have a stated and may also have a	second conduit conne- er lock, external bondi second conduit conne- over lock, external bor second conduit conne- nent and temperature	ction ing terminal, ction nding terminal, ction indication in a
	QE QF	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe	t holes and a namepla erature sensor, calibra t holes and a namepla erature sensor, uncalil t holes and a namepla erature sensor with tel	ate and may also have a stated, equipped with a covorte and may also have a stated, equipped with a counted, equipped with a counted and may also have a stated.	second conduit conne- er lock, external bondi second conduit conne- over lock, external bor second conduit conne- nent and temperature	ction ing terminal, ction nding terminal, ction indication in a
	QE QF None	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe separate enclo	t holes and a namepla erature sensor, calibra t holes and a namepla erature sensor, uncalit t holes and a namepla erature sensor with ter osure from the explosi adel Designation	ate and may also have a stated, equipped with a covate and may also have a stated, equipped with a cate and may also have a state and may also have	second conduit conne- er lock, external bondi second conduit conne- over lock, external bor second conduit conne- nent and temperature	ction ing terminal, ction nding terminal, ction indication in a
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III.	QE QF None 120 121 122	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe separate enclo Series and Mc Temperature s Temperature s Type of Switch Common adju Individual adju Model Designa May be three s element not to customer spec	tholes and a namepla erature sensor, calibra tholes and a namepla erature sensor, uncalibratholes and a namepla erature sensor with ter source from the explosi- odel Designation sensor switch with one sensor switch with one sensor switch with two an Designation stment provided lation to five digit numerical exceed 538°C (1000° cification number	ate and may also have a stated, equipped with a covate and may also have a strated, equipped with a covate and may also have a strated, equipped with a context and may also have a strated and may also have a strated and may also have a strategy and may also have a snap switch provided a snap switches provided a snap switches provided or alphabetical suffix individuals.	second conduit conne- er lock, external bondi second conduit conne- over lock, external bon second conduit conne- nent and temperature ining the snap-switch	ction ing terminal, ction nding terminal, ction indication in a and associated wirin
	QE QF None 120 121 122	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe separate enclo Series and Mo Temperature s Temperature s Temperature s Type of Switch Common adju Individual adju Model Designa May be three s element not to customer spec	tholes and a namepla erature sensor, calibra tholes and a namepla erature sensor, uncalibratholes and a namepla erature sensor with ter source from the explosi- odel Designation sensor switch with one sensor switch with one sensor switch with two an Designation stment provided lation to five digit numerical exceed 538°C (1000° cification number	ate and may also have a stated, equipped with a covate and may also have a state and have a state and may also have a state and may also have a stat	second conduit conne- er lock, external bondi second conduit conne- over lock, external bon second conduit conne- nent and temperature ining the snap-switch	ction ing terminal, ction nding terminal, ction indication in a and associated wirin
III.	QE QF None 120 121 122	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe separate enclo Series and Mo Temperature s Temperature s Temperature s Type of Switch Common adju Individual adju Model Designa May be three t element not to customer spec Internal Switch May be a four	tholes and a namepla crature sensor, calibrat holes and a namepla crature sensor, uncalibrate tholes and a namepla crature sensor with terposure from the explosional process of the sensor switch with one sensor switch with two an Designation strength provided lation to five digit numerical exceed 538°C (1000° cification number in Designation digit number indication digit number indication	ate and may also have a stated, equipped with a covate and may also have a state and have a state and may also have a state and may also have a stat	second conduit conne- er lock, external bondi second conduit conne- over lock, external bon second conduit conne- nent and temperature ining the snap-switch	ction ing terminal, ction nding terminal, ction indication in a and associated wirin
III. IV. V.	QE QF None 120 121 122	enclosure ven Remote tempe enclosure ven Remote tempe enclosure ven Remote tempe separate enclo Series and Mo Temperature s Temperature s Temperature s Type of Switch Common adju Individual adju Model Designa May be three s element not to customer spec Internal Switch May be a four Option Design	tholes and a namepla erature sensor, calibrat holes and a namepla erature sensor, uncalibrate tholes and a namepla erature sensor uncalibitate tholes and a namepla erature sensor with terbure from the explosional period of the	ate and may also have a stated, equipped with a covate and may also have a state and have a state and may also have a state and may also have a stat	second conduit conneer lock, external bondisecond conduit connerversecond content cont	ction ing terminal, ction nding terminal, ction indication in a and associated wirin and associated wirin ge and sensing gequivalent to a



[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 11 ATEX 1105261X Rev 1

Report: 4786503672

400 S	eries					
В		400	P III	12345	2200 V	M123 VI
		II Sensor Type	and Adjustment Design	IV	V	LVI
	В	Calibrated dia	al, immersion stem, in	ternal adjustment with refer		
	C			internal adjustment withou internal adjustment with ref		
	F			y, internal adjustment witho		
U)(UI.	400		odel Designation	a anan ayyitah maayidad		
	400 402			e snap switch provided o snap switches provided		
	403	•		ree snap switches provided		
(UI) (UII.		Internal Swite	h Adjustment Design	ation		
	Р		ch Adjustment Designa ustment provided (doe	ation es not apply to single switch	n devices)	
	None		ustment provided	o not apply to omigro owner.	. 401.000)	
IV.		Model Design		or alphabetical suffix indic	ating temperature rai	nge and sensing
		element not to		F), not affecting electrical r		
V.			ch Designation r digit number indicati	ng switch designation		
VI.		Option Design	nation			
			r digit numerical or alp	phabetical suffix not affecting	ng electrical ratings of	temperature ratings
		of the device				
Н		400	K	12345	3000	M123
ALV AL		ALL V		IV	V	VI
		Sensor Type	and Adjustment Desig	nation		
	Н	Calibrated dia	al, internal adjustment	with reference dial		
	J	Uncalibrated	dial, internal adjustme	ent without reference dial		
II.		Series and M	odel Designation			
	400	Pressure sen	sor switch with one sr			
	402 403			nap switches provided snap switches provided		
	403	riessule sell	SOI SWILCIT WILLT LITTLE :	snap switches provided		
III.			ch Adjustment Designa			
	K P		ressure control provide		a dovisoo)	
	None		ustment provided (doe ustment provided	es not apply to single switch	i devices)	
IV.		Model Design		or alphabatical auffix india	oting procesure renge	and consing element
		not to exceed	to live digit numerical I 6000 psi, not affectin	or alphabetical suffix indic g electrical ratings of the d	evice: equivalent to a	customer
		specification		3		
V.		Internal Switch	ch Designation			
Uı X U'i				ng switch designation		
VI.		Option Design		phabetical suffix not affecting	na electrical ratings of	r pressure ratings of
		the device	i digit numencai of all	madelicai sumx not anecim	ig cieculcal ratings of	pressure railings of
		ALVA				



[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 11 ATEX 1105261X Rev 1 Report: 4786503672

Temperature range

The ambient temperature range is -50°C ≤ Tamb ≤ +60°C

Electrical data

Intrinsically Safe Parameters

 $\begin{array}{cccc} U_i & : & 49 \ V \\ I_i & : & 3 \ A \\ C_i & : & 0.0 \ uF \\ L_i & : & 0.0 \ mH \end{array}$

[16] Report No

Project Report No.: 4786503672 (Hazardous Location Testing)

Documents:

=			
Description:	Drawing No.:	Rev. Level:	Date:
Intrinsically Safe (I.S.) Control Drawing	62174-3	G	2014-07-29
Intrinsically Safe (I.S.) Label Drawing	6333-65	D	2014-07-25
6 Series Construction Drawing	62174-13	В	2011-10-17
10 Series Construction Drawing	62174-10	В	2011-10-17
12 Series Construction Drawing	62174-11	В	2011-10-17
21 Series Construction Drawing	62174-14	В	2011-10-17
100 Series Construction Drawing	62174-9	В	2011-10-17
117 Series Construction Drawing	62174-8	В	2011-10-17
120 Series Construction Drawing	62174-16	В	2011-10-17
400 Series Construction Drawing	62174-17	В	2011-10-17

[17] Specific conditions of use:

Warning: Enclosure contains aluminum. Care must be taken to avoid ignition hazard due to impact or friction.

[18] <u>Essential Health and Safety Requirements</u>

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

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".

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.

