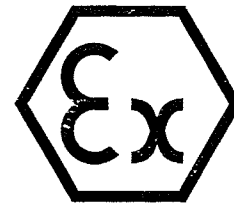


# EC-TYPE EXAMINATION CERTIFICATE



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

EC-Type Examination Certificate Number: DEMKO 03 ATEX 0310459X

Equipment or Protective System: Phase Tracker

Manufacturer: Venture Measurement Company

Address: 150 Venture Blvd, Spartanburg, SC 29306, USA

This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

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. 0310459

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 50014: 1997 E incl. A1+A2    EN 50020: 2002 E    EN 50284: 1999 E

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.

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.

The marking of the equipment or protective system shall include the following:

II 1G    EEx ia IIA T4

On behalf of UL International Demko A/S

Herlev, 2003-09-30

Karina Christiansen  
Certification Manager

**UL International Demko A/S**

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Certificate: 03 ATEX 0310459

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# Schedule

## EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 0310459X

[13]

[14]

[15]

### Description of Equipment or protective system

The Phase Tracker is a continuous reading level measurement system which measures the contents of silos or tanks. It uses a Tefzel coated, two wire flexible sensor that detects the phase difference between the transmitted and echoed signals.

### Temperature range

The ambient temperature range is -20 °C to +40 °C.

### Electrical data

Terminal	U <sub>i</sub>	I <sub>i</sub>	Group IIA	
			C <sub>i</sub>	L <sub>i</sub>
D-	-13.65V	47.7mA	.42uF	7.6mH
D+	+13.65V	47.7mA	.42uF	7.6mH
V <sub>i</sub>	+13.65V	47.7mA	.42uF	7.6mH
GND	GND	GND	GND	GND
Vd-	-13.65V	1.35mA	.42uF	7.6mH
Vd+	+13.65V	1.35mA	.42uF	7.6mH
GND	GND	GND	GND	GND
GND	GND	GND	GND	GND
B1	1.7V	34mA		

### Installation instructions

The device is to be installed in accordance with control drawing CPT231054

[16]

### Report No.

Project Report No.: 0310459 (Hazardous Location Testing)

### Drawings:

Number	Date	Description
CPT231053	2003-06-18	Phase Tracker Nameplate
CPT231054	2003-06-18	Control Drawing for Phase Tracker
CPT	DATE	Phase Tracker Schematic

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Report: 0310459

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# Schedule

## EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 0310459X

CPT211000	2002-12-02	Phase Tracker PCB Assembly/Parts List
CPT231000	2003-03-06	Phase Tracker PCB Trace Layout
CPT240000	2003-08-13	Electronics Housing

[17] Special conditions for safe use:

The device is to be installed in accordance with Control Drawing CPT231054 and the sensor is to be wiped with a damp cloth to eliminate electrostatic charge or use a stainless steel tether to attach sensor to metal tank and earth ground.

[18] Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

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.

On behalf of UL International Demko A/S

Herlev, 2003-09-30

  
Karina Christiansen  
Certification Manager

### UL International Demko A/S

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