### GENERAL DESCRIPTION

4-wire EasyTREK ultrasonic level transmitters are offered for solids level monitoring tasks where previously only more complex, two part systems have performed adequately. NIVELCO's high efficiency SenSonic narrow beam angle transducers, giving superb signal transmission, make possible that the EasyTREK units overcome filling noise, dusting and irregular surface formations in most cases to give a high performance, compact, powder and solids level measurement transmitter. This is provided by the QUEST+ software, using advanced process adaptive signal processing for reliable echo monitoring, offering a best-in-class solution.

### MAIN FEATURES

- Non-contact level measurement
- 4-wire integrated (blind) level transmitters
- Maximum 60 m measuring range
- Narrow (5°) beam angle
- Full temperature compensation
- IP65 protection
- HART® communication
- Dust Ex version

#### **APPLICATIONS**

- Level, volume and weight calculation
- Wide application range: light powders to coarse bulk solid materials
- Reliable measurement in challenging applications such as dusting during filling

## **CERTIFICATIONS**

ATEX (Dust Ex)

# **TRANSDUCERS**

Transducer material	EasyTREK
	SCD-300
PP (Normal version)	•
Aluminium (Ex version)	

# **PROPERTIES**

Functions	EasyTREK
runctions	SCD-300
Relay or SSR	SPST
HART®	
Dust Ex version	

### TECHNICAL DATA

Туре		EasyTREK SCD-300		
System		4-wire		
Accuracy (1)		± (0.2% of measured distance + 0.1% of range)		
Resolution		10 mm		
Output	Analogue	4 <b>-</b> 20 mA		
	Relay	SPST, 48 V AC / 5 A, AC12		
	Digital communication	HART®		
Ambient temperature		-30 °C +60 °C		
Process temperature				
Process pressure		0.07 <b>–</b> 0.11 MPa (0.7 <b>–</b> 1.1 bar)  P <sub>absolute</sub> and ±0.01 MPa (0.1 bar) difference between ambient and tank pressure		
Power supply		11.4 – 40 V DC / 4.7 W and 11.4 – 28 V AC / 5.2 VA		
Electrical protection		Class III		
Housing		Same as the transducer housing material		
Electrical connection		LiYCY type 7x 0.5 mm² shielded Ø7.5 mm cable; standard cable length: 5 m (can be ordered up to 30 m)		
Ingress protection		<b>I</b> P65		
Explosion protection		See: "Special data for Ex certified models" table		
Mass		~3 <b>-</b> 3.5 kg, or 6.5 kg		

<sup>(1)</sup> Under optimum conditions and stabilized transducer temperature

## SPECIAL DATA FOR Ex CERTIFIED MODELS

Туре	EasyTREK SCD-300			
Protection type	Dust Ex			
Ex marking	II 1 D Ex ma ta IIIC T85°CT130 °C Da			
Ambient temperature	-30 °C +60 °C			
Process temperature				





# TRANSDUCER DATA AND DIMENSIONS

Transducer type	SCD-34	SCD-33	SCD-31	
Recommended applications	Small tanks, hoppers, conveyor belts. Both powders and granules.	Medium sized silos containing all kinds of bulk solids.	Larger silos containing all kinds of bulk solids. Due to its power and low frequency recommended if dust generation is significant.	
EasyTREK (normal type)	1° BSP		1' BSP	
EasyTREK (Ex type)	1"BSP		1" BSP	
Transducer material	Normal type: PP, Ex type: Paint coated aluminium			
Surface of the transducer	Closed cell Polyurethane foam sensor face (PUR)			
Beam angle	5°			
Max. measuring range (1)	15 m	30 m	60 m	
Min. measuring range (1)	0.6	ó m	1 m	

<sup>(1)</sup> Under optimum conditions and stabilized transducer temperature





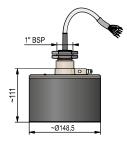
# EasyTREK SCD-34/33/31 5 years 4-wire integrated compact ultrasonic level transmitters for solids with PP or aluminium cast sensor housing with polyurethane foam face Range / Frequency S C D - 3 - - -4 0.6-15 m (40 kHz) 0.6-30 m (30 kHz) 3 1-60 m (15 kHz) S C D - 3 ■ □ - ■ 1" BSP thread 0 Aming device S C D - 3 - -4-20 mA + HART + Relay 8 4-20 mA + HART + SSR / Ex Maximum length 30 m; each started 1 m over the standard 5 m S F A - 3 - 0 S A T - 3 0 4 - 0 Flanges HART-USB modem SAT-504-HART-USB/Bluetooth modem

HART-USB/RS485 modem

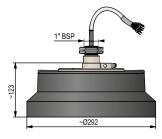
HART-USB/RS485 modem / Ex ia

Fast connecting gland for pipe mounting devices with 1" process connection, PP

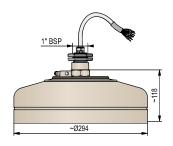
Aiming device, 500 mm, aluminium, Pg9, drilled as DN50 PN16

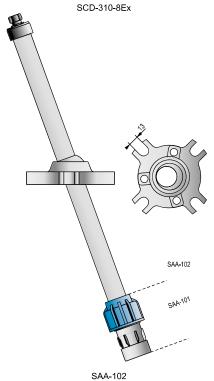


SCD-330 / 340



SCD-310





S A K - 3 0 5 - 2

S A K - 3 0 5 - 6

S A A - 1 0 1 - 0

S A A - 1 0 2 - 0