

DCH

Programmable Transducer for High DC Current and DC Voltage

Programmable multi transducer for fast and high accuracy measurements of high DC voltage and DC current with shunt.

Advanced filter functions and characteristic setting points that can be individually set for both, analog and relays outputs. Auxiliary supply with wide input voltage range and free configuration software, ConfigLQT.

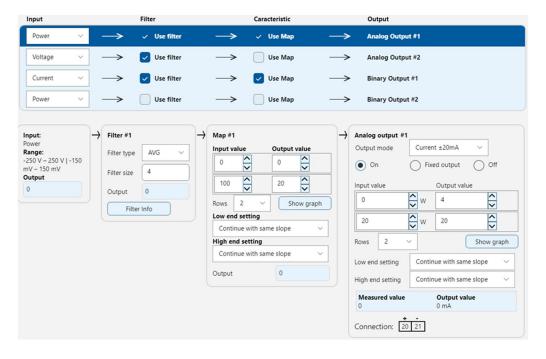


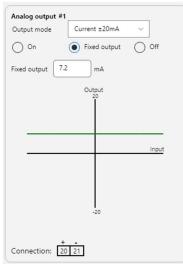




Technical Data		Details		
Input				
	Voltage	±300 VDC		
	Current Shunt	±150 mV		
Auxiliary supply	Range	24 – 230 VDC ±10 %		
		90 – 230 VAC ±10 %		
		50/60Hz		
	Burden	max 3.5 W / 7.5 VA		
Output	Analog Outputs	2		
	Programmable Range	±20 mA		
		±5 mA		
		±10 V		
	Resolution	(Settings within the range) 16 bits		
	External Resistance Load	Current output: $\pm 20 \text{ mA} \leq 500 \Omega (10 \text{ V})$		
	External Nesistance Load	±5 mA \leq 2000 Ω (10 V)		
		Voltage output: $\pm 10 \text{ V} \ge 500 \Omega$		
	Response Time	< 50 msec		
	Ripple	≤ 0.2 %		
	Relay Outputs	2 (Mechanical)		
		8 A 250 VAC (NO)		
		8 A 30 VDC – 300 mA 300 VDC (NO)		
General Data	Accuracy	0.2 (Ref. temp. 23 °C)		
	Galvanic Isolation	Supply, input, and output are galvanically isolated		
	Connection Terminals/Torque	Input, Output & Auxiliary: 2.5 mm ² / 0.5 Nm		
	Humidity	95% non-condensing		
	USB	USB Micro-B, port for configuration		
	Temperature	-10+55 °C (operation)		
		-40+70 °C (storage)		
	Test Voltage	Temperature coefficient < 0.1 % / 10 °C 4 kVAC /1 min		
	Measurement Category	Cat. III		
	Overvoltage Category	Cat. III		
	Pollution Degree	2		
	Dimension (W x H x D)	35 x 132 x 101 mm		
	Weight	330 gr		
	Protection	Enclosure IP40		
		Terminals IP20		
	Flammability Class	UL94 V-0		
	Standards	SS-EN 60688:2021 Transducers		
		EN 61000-6-2 / -6-4 / -6-5		
		SS-EN 61010-1 Safety		
		SS-EN 61010-2-030		





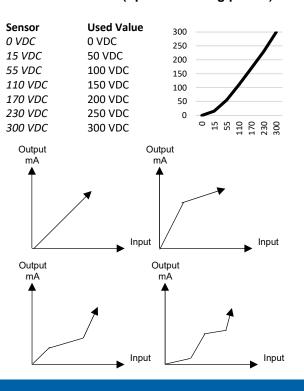


Configuration Software - ConfigLQT

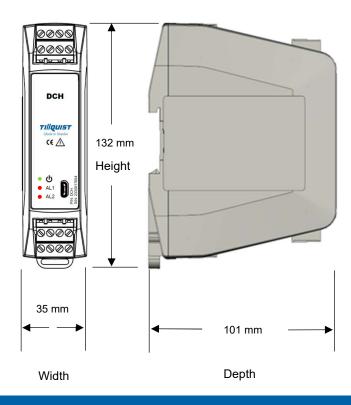
ConfigLQT, free configuration software, downloadable from our webpage, www.tillquist.com, configures all Tillquist's programmable transducers. The software connects to live transducers, changes the configuration, and visualizes live readings.

Programmable Characteristic Setting Points

Transmission Functions (up to 20 setting points)



Dimensions

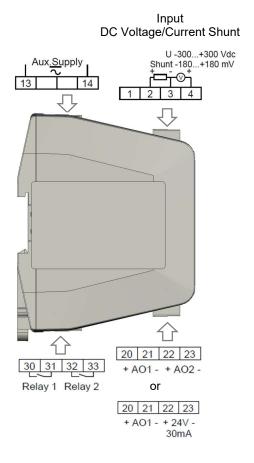


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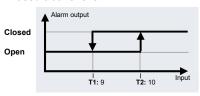
Connections

DCH

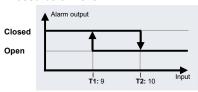


Relay Outputs

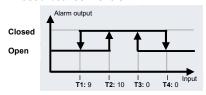
Closed above level



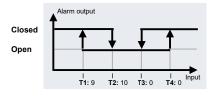
Closed below level



Closed between levels



Closed outside levels



Ordering Codes

DCH Ordering Codes

	DCH-0	2	2	XXX			
Number of Analog Outputs							
2		2					
Number of Relay Outputs							
22							
Other Requirements							
Standard Configuration 000							
Customer configuration (to provide ERF)001							

Ordering Codes Example

DCH-022000: DCH transducer with 2 analog and 2 relay outputs