LQT400-R/(PQ430RT-D)

Rack Type Power transducer

Digital, rack mounted, fully programmable, high accuracy, Tillquist's LQT400-R multi-transducer, silver-plated plugs, self-shorting sockets for maximum safety, can be used with 50 or 60Hz rated frequencies with a wide range of AC and DC auxiliary supply and can easily replace any old models of PQ430R. This transducer can measure active and reactive powers as well as power factors, and all other electrical quantities, including voltage and current for any 3-phase system. LQT400-R can be easily programmed through its USB mini-b standard port and Tillquist's ConfigLQT free software.

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LQT400-R

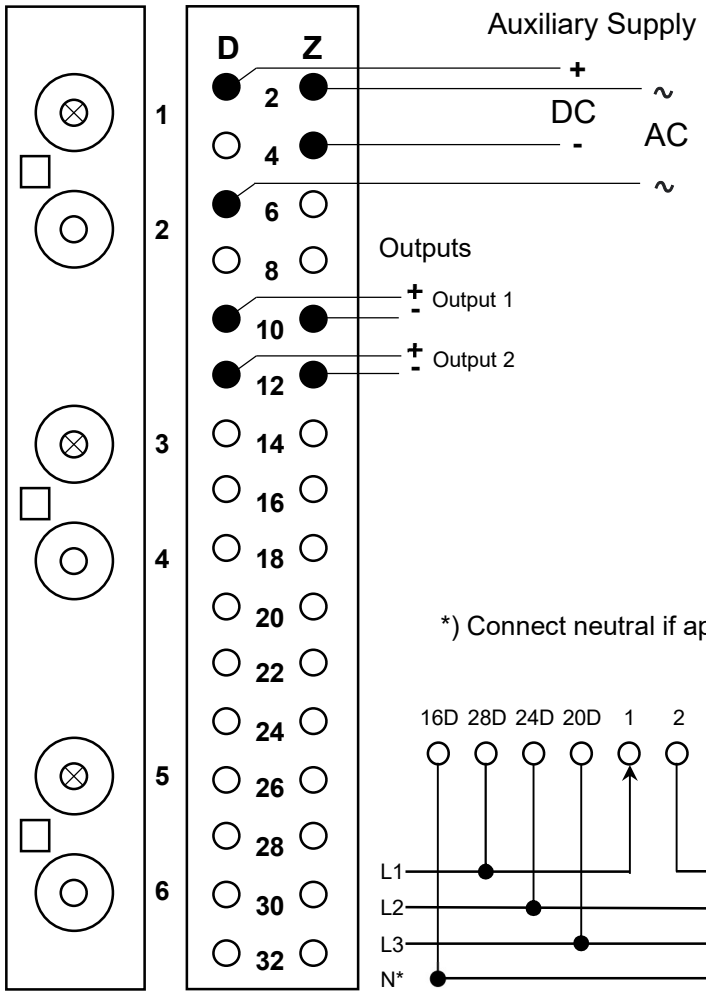
Technical Data		Installation
Input	Voltage range (Un)	100 – 400 V main voltage (nominal)
	Measuring range	3 – 500 V TRMS L-L 50/60 Hz
	Configurable measuring range	0 - 500 V L-L / 0 - 300 V L-N
	Frequency	10…40….70…120 Hz
	Overload voltage	1.5 x Un – continuously, 2 x Un – 10 s
	Consumption	U x 1 mA / phase
	Current (In)	1 – 5 A
	Measuring range	1 – 10 A TRMS
	Overload current	2 x In continuously, 10 x In 15 s, 40 x In 1 s
	Consumption	<0.05 VA / phase
	Auxiliary power supply	24 – 250 VDC / 80 – 250 VAC
	Burden	4.77 to 8.8 VA (AC supply) 2.72 to 3.44 W (DC supply)
Output	Analog outputs	2
	Programmable range	+/- 20, 0..10, 4..20, +/- 10 mA … and more
	External resistance load	max 750 ohm (15V)
	Response time	<100 msec
General Data	Accuracy	0.2
	Galvanic isolation	Supply, in- and output are galvanically isolated
	USB	1 port USB mini-b for configuration
	Temperature	-10…+55 °C (operation) -40…+70 °C (storage) Temperature coefficient < 0.1% / 10 °C
	Test voltage	4 kV AC / min
	Inputs	overvoltage cat. III
	Pollution degree	2
	Dimension (B x H x D)	128.4 x 40.6 x 216 mm – Rack
	Weight	≈ 0.5 kg
	Standards	SS-EN 60688 Transducers SS-EN 61010-1 Safety EN 61000-6-2 / -6-4 / -6-5

System Connection

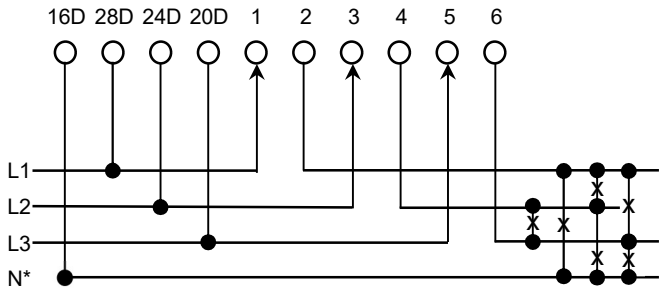
Code	Application	I1	I2	I3	N	U1	U2	U3	U12	U23	U31
00	4wire, 3 phase symmetric load	X	-	-	X	X	-	-	-	-	-
01	1-wire, 1 phase	X	-	-	X	X	-	-	-	-	-
02	3-wire, 3 phase symmetric load	X	-		-	-	-	-	X	-	-
03	3-wire, 3 phase symmetric load	X	-	-	-	-	-	-	-	X	-
04	3-wire, 3 phase symmetric load	X	-	-	-	-	-	-	-	-	X
05	3-wire, 3 phase symmetric load	X	-	-	-	X	X	X	X	X	X
09	3-wire, 3 phase asymmetric load	X	-	X	-	X	X	X	X	X	X
11	4-wire, 3 phase asymmetric load	X	X	X	X	X	X	X	X	X	X
11	4-wire, 3 phase asymmetric load Open Delta	X	X	X	-	X	X	X	X	X	X

Connection

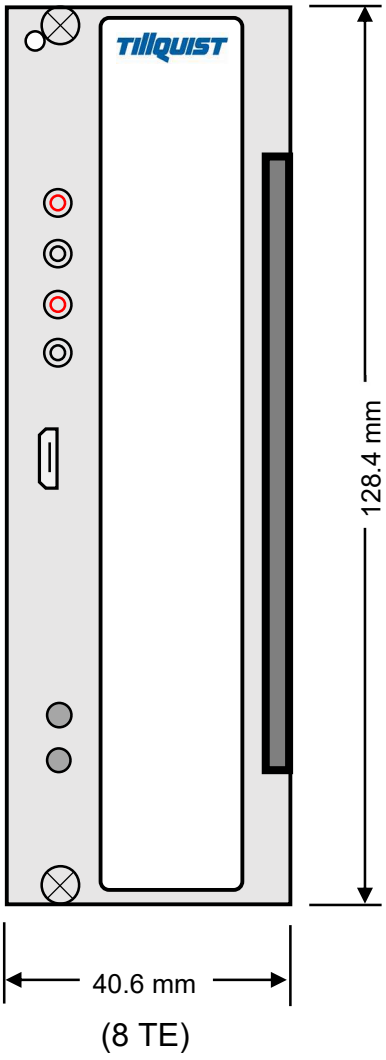
LQT400-R / (PQ430RT-D)



*) Connect neutral if applicable

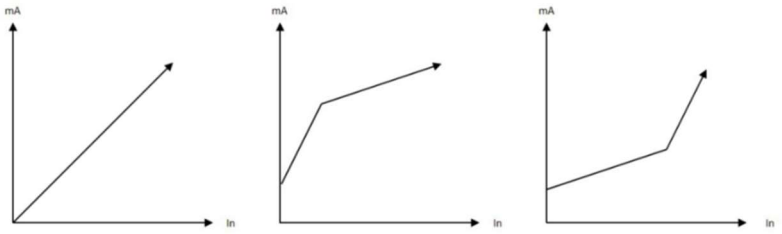


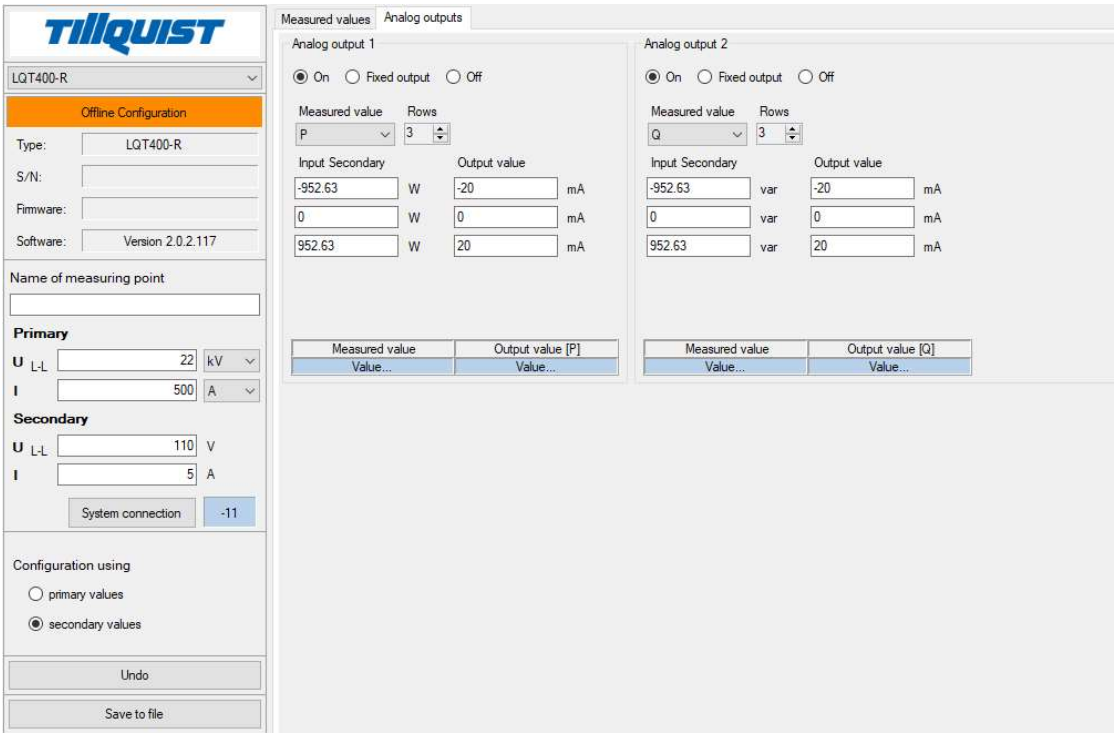
Dimensions

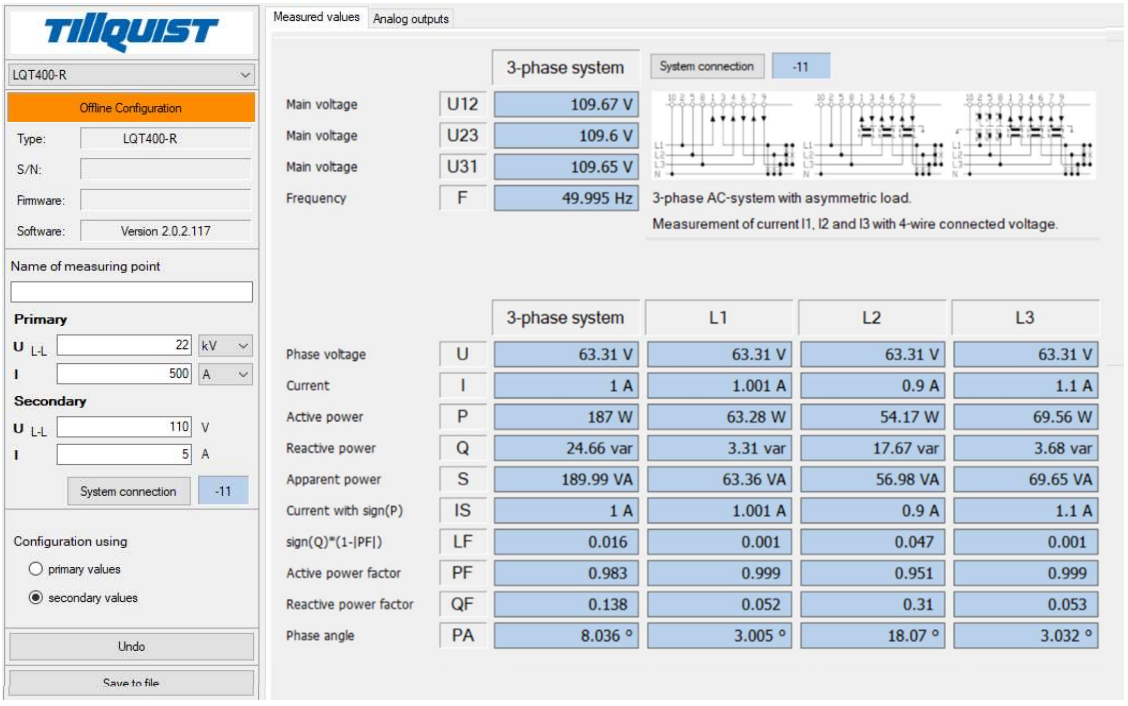


CONFIGURATION SOFTWARE ConfigLQT

Up to 5 points







REVISION HISTORY	
A1	211201