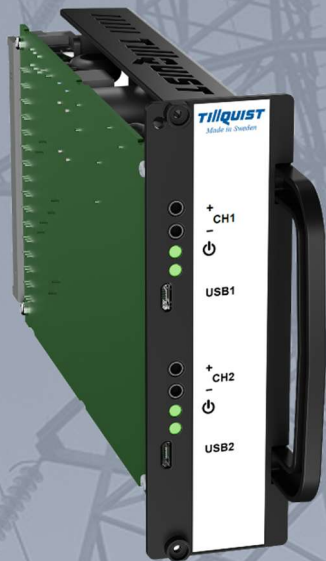


LT10I-R/(I480RT-D) LT10U-R/(U480RT-D)

Rack Type Current / Voltage transducers



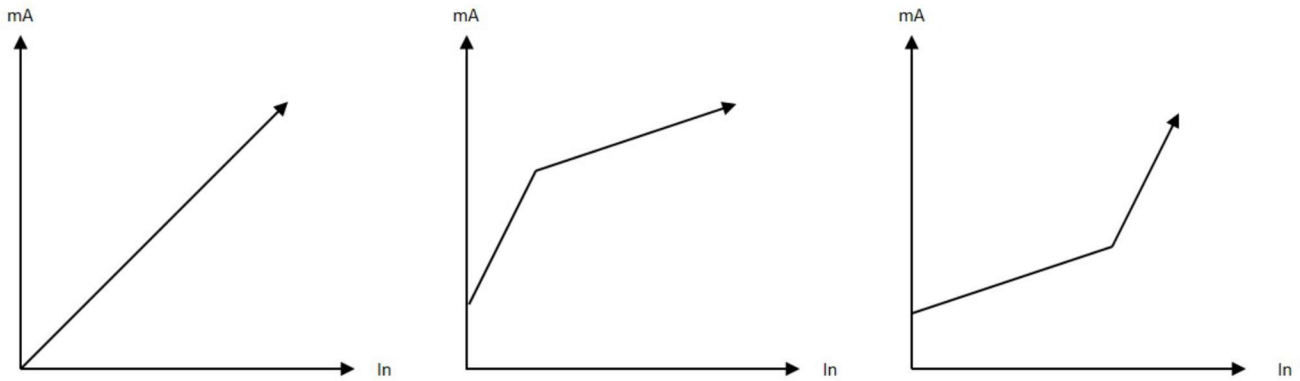
Digital, rack mounted, fully programmable, high accuracy, Tillquist's LT10I-R and LT10U-R current and voltage 1 or 2-channel transducers, silver-plated plugs, self-shorting sockets for maximum safety, can be used with 50 or 60Hz rated frequencies with a wide range of AC and DC auxiliary supply and can easily replace any old models of I480RT, U480RT or U420RT. They can measure current, voltage or frequency. Both can be easily programmed through a USB mini-b standard port and Tillquist's ConfigLQT free software.

LT10I-R / LT10U-R



Technical Data		Description
Input LT10I-R	Current (In)	1 – 5 A
	Measuring range	0.005 – 12 A TRMS
	Configurable range	0 – 10 A TRMS
	Frequency	10...40...70...120 Hz
	Overload current	2 x In continuously, 10 x In 15 s, 20 x In 1 s
	Consumption	<0.05 VA / channel
Input LT10U-R	Voltage range (Un)	100 – 400 V main voltage (nominal)
	Measuring range	3 – 500 V TRMS L-L 50/60 Hz
	Configurable 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	< 0.5 VA / channel
Auxiliary Supply	Wide range	24 – 250 VDC / 80 – 250 VAC 50/60 Hz
	Burden	3.1 to 5.58VA 1ch, 5.25 to 10.5VA 2ch (AC) 1.65 to 2.14W 1ch, 3.22 to 4.06W 2ch (DC)
Output	Channels	1 or 2
	Analog outputs	1 per channel
	Programmable range	Programmable any values between 0 and 20 mA
	External resistance load	max 750 ohm (15V)
	Individual characteristic	Up to 5 points
	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

Up to 5 points

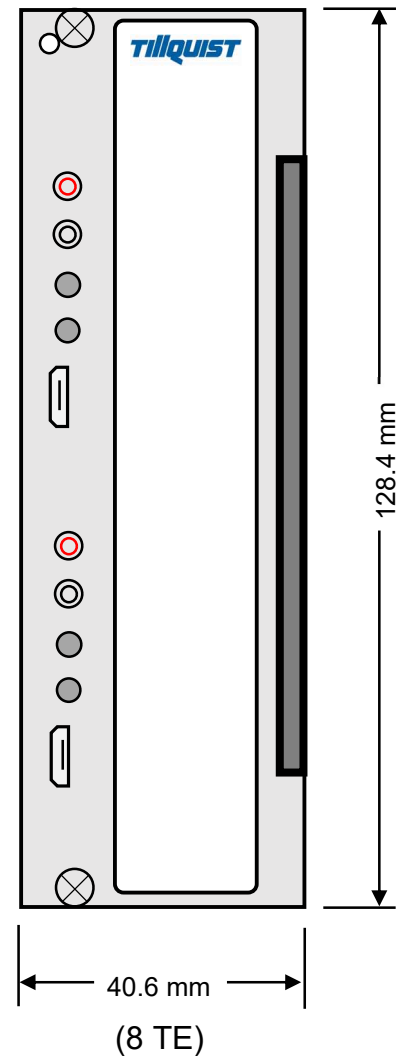
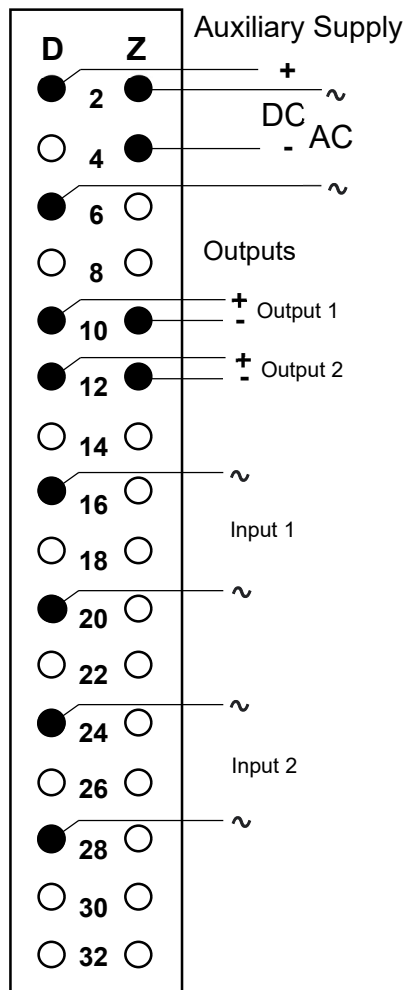
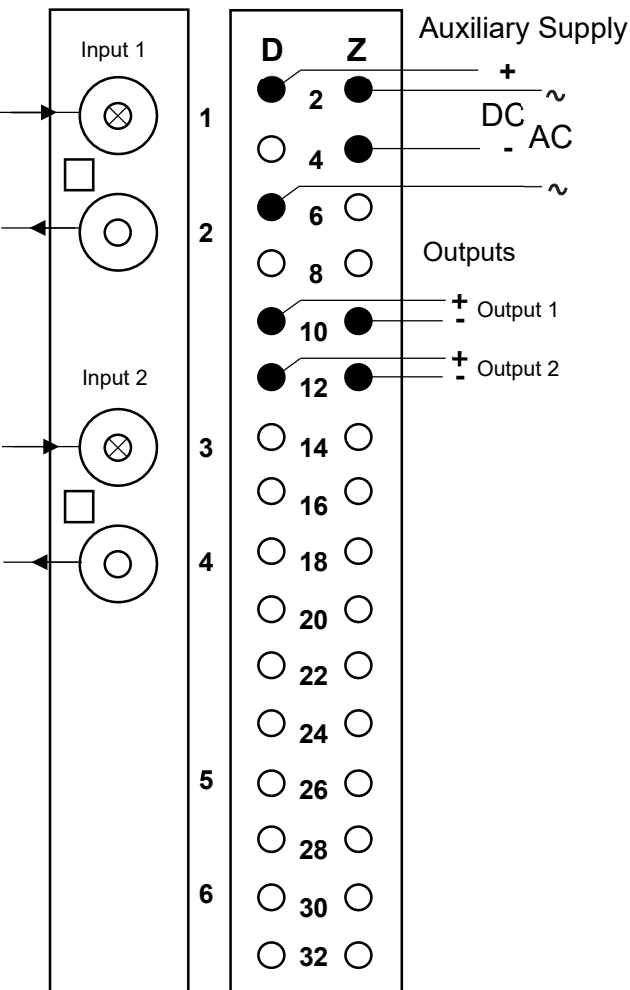


Connection

Dimensions

LT10I-R/(I480RT-D)

LT10U-R/ (U480RT-D) (U420RT-D)



CONFIGURATION SOFTWARE ConfigLQT

LT10 Measured Values

LT10I-110000
Measured values

Frequency
F
F

Current
I
I

Analog output 1

On Fixed output Off

Measured value	Rows
I	3

Input Secondary	Output value
0 A	4 mA
3,5 A	6 mA
6,5 A	20 mA

Measured value	Output value [I]
Value...	Value...

Name of measuring point

Primary

I A

Secondary

I A

Configuration using

primary values

secondary values

Undo

Save to file

LT10 Measured Values

LT10U-110000
Measured values

Frequency
F
F

Phase voltage
U
U

Analog output 1

On Fixed output Off

Measured value	Rows
U	3

Input Secondary	Output value
0 V	4 mA
12,5 V	6 mA
132 V	20 mA

Measured value	Output value [U]
Value...	Value...

Name of measuring point

Primary

U kV

Secondary

U V

Configuration using

primary values

secondary values

Undo

Save to file

Measured values Analog outputs

LQT400-R
System connection -11

3-phase system

Main voltage U12 109.67 V

Main voltage U23 109.6 V

Main voltage U31 109.65 V

Frequency F 49.995 Hz

3-phase AC-system with asymmetric load.

Measurement of current I1, I2 and I3 with 4-wire connected voltage.

	3-phase system	L1	L2	L3
Phase voltage U	63.31 V	63.31 V	63.31 V	63.31 V
Current I	1 A	1.001 A	0.9 A	1.1 A
Active power P	187 W	63.28 W	54.17 W	69.56 W
Reactive power Q	24.66 var	3.31 var	17.67 var	3.68 var
Apparent power S	189.99 VA	63.36 VA	56.98 VA	69.65 VA
Current with sign(P)	IS 1 A	1.001 A	0.9 A	1.1 A
sign(Q)*(1- PF)	LF 0.016	0.001	0.047	0.001
Active power factor PF	0.983	0.999	0.951	0.999
Reactive power factor QF	0.138	0.052	0.31	0.053
Phase angle PA	8.036 °	3.005 °	18.07 °	3.032 °

Name of measuring point

Primary

U L-L kV

I A

Secondary

U L-L V

I A

System connection -11

Configuration using

primary values

secondary values

Undo

Save to file

Our policy is one of continuous improvement and we reserve the right to make changes in design and specifications of any products as engineering advances or necessity requires and revise the above specifications without notice.

REVISION HISTORY

A1	211201