

TRANSDUCERS

LT10U Programmable AC Voltage/ Frequency Transducer

LT10I Programmable AC Current/ Frequency Transducer



True RMS measurements

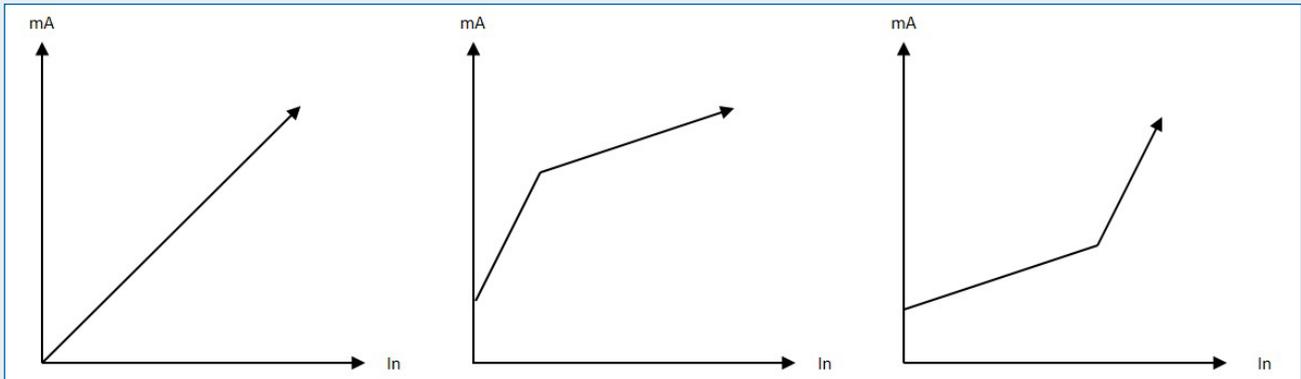
Voltage measurement	Up to 500 VAC, 50/60 Hz and 16 $\frac{2}{3}$ Hz
Current AC measurement	Up to 10 A
Frequency	10 - 120 Hz
Wide auxiliary supply	80 - 250 VAC/24-250 VDC
Class	0.2
Response time	<100 ms
Free software	

Model LT10U

Model	LT10-U
Measured Quantities	U (Voltage), F (Frequency)
Input	
Voltage Voltage range (Un) Measuring range Configurable measuring range Frequency	P/N: LT10U-110000 50 – 500 V main voltage (nominal) 0,15 – 600 V TRMS 0 – 500 V 10... <u>40</u> ... <u>70</u> ...120 Hz
Voltage Voltage range (Un) Measuring range Configurable measuring range Frequency	P/N: LT10U-110050 12,5 – 125 V main voltage (nominal) 0,003 – 160 V TRMS 0 – 150 V 10... <u>40</u> ... <u>70</u> ...120 Hz
Voltage Voltage range (Un) Measuring range Configurable measuring range Frequency	P/N: LT10U-110053 12,5 – 125 V main voltage (nominal) 0,003 – 160 V TRMS 0 – 150 V 10... <u>15</u> ... <u>18</u> ...120 Hz
Supply voltage Power supply Burden	24 – 250 VDC 80 – 250 VAC, 50/60 Hz max 6 VA
General data voltage	
Overload voltage Measuring range F Configurable measuring range Consumption	1,2 x Un – continuously 2 x Un – 10 s 10 – 120 Hz 0 - 120 Hz < 0,5 VA

Model LT10U

Model	LT10-U
Output	
Analog Analog output Range	1 0-20 mA (programmable) 0...1 mA (class 0.5), 0...5 mA, 0...10 mA, 0...20 mA, 4...20 mA
External resistance load Response time Individual characteristic	max 750 ohm (15V) < 100 ms 5 points

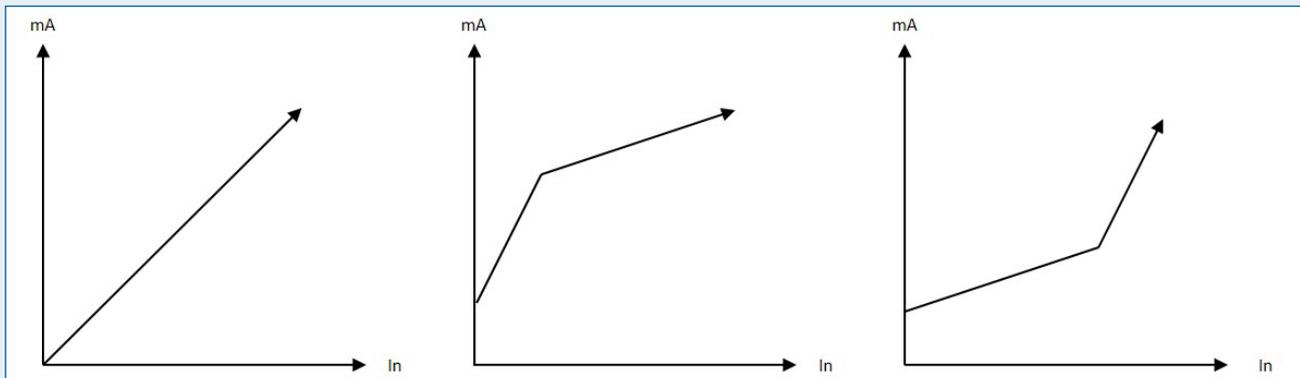


Model LT10I

Model	LT10-I
Measured Quantities	I (Current), F (Frequency)
Input	
Current Current (In) Measuring range Configurable measuring range Frequency	P/N: LT10I-110000 1 – 5 A 0,005 – 12 A TRMS 0 – 10 A 10...40...70...120 Hz
Current Current (In) Measuring range Configurable measuring range Frequency	P/N: LT10I-110003 1 – 5 A 0,005 – 12 A TRMS 0 – 10 A 10...15...18...120 Hz
General data current	
Overload current Measuring range F Configurable measuring range Consumption Supply voltage Power supply Burden	2 x In continuously 10 x In 15 s 20 x In 1 s 10 – 120 Hz 0 – 120 Hz < 0.05 VA 24 – 250 VDC 80 – 250 VAC, 50/60 Hz max 6 VA

Model LT10I

Model	LT10-I
Output	
Analog	
Analog output	1
Range	0-20 mA (programmable) 0...1 mA (class 0.5), 0...5 mA, 0...10 mA, 0...20 mA, 4...20 mA
External resistance load	max 750 ohm (15V)
Response time	< 100 ms
Individual characteristic	5 points

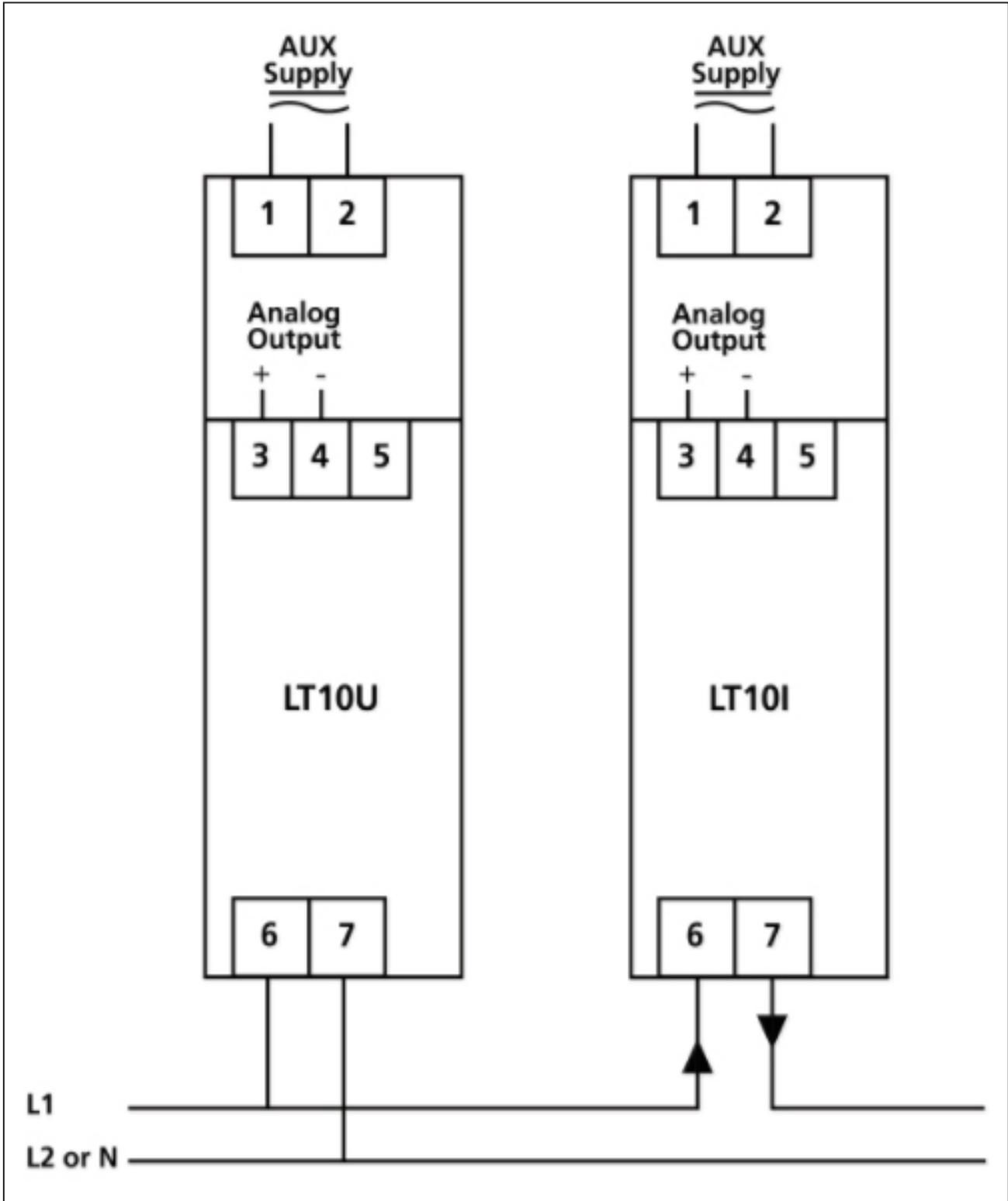


Model LT10U and LT10I

General data		
Accuracy	0.2	
Galvanic isolation	Supply in- and output are galvanically isolated	
USB	Programming USB port is NOT galvanically isolated from output	
Temperature	-10...+55 °C (operation) -40...+70 °C (storage)	
Temperature coefficient	Less than 0.1% / 10 °C	
Test voltage	5,6kV AC 50 Hz 1 min meas. input 3,7kV AC 50 Hz 1 min aux. power supply	
Installation category	CAT III; 600 V meas. input CAT III; 300 V aux. power supply	
Pollution degree	2	
Dimension (W x H x D)	35 x 109 x 126 mm – DIN-rail	
Standards		
Transducers	Acc. To EN 60688	Electrical measuring transducers for converting A.C. and D.C. electrical quantities to analogue or digital signals.
Safety	Acc. To EN 61010-1	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use.
EMC	Acc. To EN 61000-6-2	Generic standards - Immunity for industrial environments
	Acc. To EN61000-6-3:2007	Generic standards - Emission standard for industrial environments
	Acc. To EN 61000-6-4:2007	Generic standards - Emission standard for industrial environments
	Acc. To EN 61000-6-5	Generic standards - Immunity for equipment used in power station and substation environment
Order code		
	LT10U-110000 , 0-500 V 50/60 Hz LT10U-110050 , 0-125 V 50/60 Hz LT10U-110053 , 0-125 V 16 $\frac{2}{3}$ Hz LT10I-110000 , 0-5 A 50/60 Hz LT10I-110003 , 0-5 A 16 $\frac{2}{3}$ Hz	LT10U Voltage/Frequency transducer class 0.2 LT10U Voltage/Frequency transducer class 0.2 LT10U Voltage/Frequency transducer class 0.2 LT10I Current/Frequency transducer class 0.2 LT10I Current/Frequency transducer class 0.2

Model LT10U and LT10I

Connection diagram



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	160524
A2	161026
A3	170109
A4	170821
A5	180912