

## LT10U - Programmable AC Voltage/ Frequency Transducer

## LT10I - Programmable AC Current/ Frequency Transducer

### True RMS measurements

Voltage measurement	5 - 500 VAC
Current AC measurement	0,01 - 10 A
Frequency	10 - 120 Hz
Wide auxiliary supply	80 - 250 VAC/24-250 VDC
Class	0.5 or 0.2
Response time	<100 ms
Free software	



Model	LT10 - U	LT10 - I
<b>Measured Quantities</b>	U (Voltage), F (Frequency)	I (Current), F (Frequency)
<b>Input</b>		
<b>Voltage</b>		
Voltage range (Un)	50 – 500 V main voltage (nominal)	
Measuring range	0 – 500 V TRMS	
Overload voltage	1.2 x Un – continuously 2 x Un – 10 s	
Frequency	10...40...70...120 Hz	
Measuring range F	10 – 120 Hz	
Consumption	< 0,5 VA	
<b>Current</b>		
Current (In)		1 – 5 A
Measuring range		0 – 10 A TRMS
Overload current		2 x In continuously 10 x In 15 s 20 x In 1 s
Frequency		10...40...70...120 Hz
Measuring range F		10 – 120 Hz
Consumption		< 0.05 VA
<b>Supply voltage</b>		
Power supply	24 – 250 VDC 80 – 250 VAC, 50/60 Hz	24 – 250 VDC 80 – 250 VAC, 50/60 Hz
Burden	max 6 VA	max 6 VA
<b>Output</b>		
<b>Analog</b>		
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 msec	

Model	LT10 - U	LT10 - I
<b>General data</b>		
Accuracy	0.5 or class 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	
<b>Standards</b>		
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	Immunity for industrial environments
	Acc. To EN 61000-6-4	Emission standard for industrial environments
	Acc. To EN 61000-6-5	Immunity for equipment used in power station and substation environment
<b>Order code</b>		
	LT10U-110000	LT10U Voltage/Frequency transducer class 0.2
	LT10I-110000	LT10I Current/Frequency transducer class 0.2

## Connection diagram

