

Measuring Devices and Power Monitoring

Other Measuring Devices

Digital voltmeters and ammeters

Overview



Digital measuring devices: Left: 7KT1 voltmeter, right: 7KT1 ammeter

These devices for measuring voltages and currents can be used for monitoring incoming and outgoing currents or device currents in electric plants.

They are suitable for direct connection in a single-phase system or with measuring transducers in three-phase systems.

The measuring ranges of the ammeter are set locally at the device using a coding switch.


Benefits

- The ammeters have 14 measuring ranges from 0 A to 20 A and 0 A to 999 A, which can be set using a coding switch. This ensures universal application.

Technical specifications

		7KT1110	7KT1120
Standards		DIN 43751-1, -2	
Rated control supply voltage U_c	V AC	230	
Primary operating range	$\times U_c$	0.9 ... 1.15	
Rated frequency	Hz	45 ... 65	
Measuring range			
• Voltage	Direct measurement	V AC	12 ... 600
• Current	Direct measurement	A AC	--
	Transformer measurement	A AC	0.4 ... 20 direct 0.1 ... 1000/5
Measuring accuracy	At 23 °C	%	$\pm 0.5 \pm 1$ digit
Overload capability			
• Voltage	Continuous	V	720
	Short-time for 1 s	V	780
• Current	Continuous, direct	A	--
	Continuous, transformer	A	--
	Short-time for 1 s, direct	A	--
	Short-time for 1 s, transformer	A	--
Terminals	\pm screw (Pozidriv)		1
Conductor cross-sections			
	Rigid, max.	mm ²	1 × 6/2 × 4
	Flexible, with end sleeve, min.	mm ²	0.75
Degree of protection		IP20, with connected conductors	

Selection and ordering data

Version	U_c	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Digital voltmeters Measuring range 12 ... 600 V AC	V AC	MW							
	230	2		7KT1110		1	1 unit	033	0.214
Digital ammeters for direct and transformer connection Measuring range direct: 0.4 ... 20 A transformer: 0.1 ... 1000 A/5	230	2		7KT1120		1	1 unit	033	0.218
