Accurate class 0.2, 0.5 & 1 USB

programming

Response time



~100-220 ms

compact, configurable multiple measurand transducers

DPT100 is a range of compact, configurable multiple measurand transducers designed to meet the demanding needs of supply utilities and industrial applications. It offers accurate true-RMS measurements for high efficiency and quick response time. It is equipped with two load-independent, galvanically-isolated analogue outputs that can be configured for different measurands, input range and output curves.

- Best in class response time
- Long range, site-configurable inputs, outputs and measurands
- Load-independent accuracy on all outputs
- 2-in-1 programmable transducers
- Diagnostic LEDs
- Compact footprint

+/P Aux -/N	+A1 - +A2	9	n	
				50%-272 V
	A2			加井北市(1015)113
DPT100				Optit 62thk, National Your Factors Input Respiral
Order code : DPT611-1 Multi function transduce				111512512
				Filler
				(6 3 min
				Trans
	CEWE			
INI	PUT			
UN	1 1			

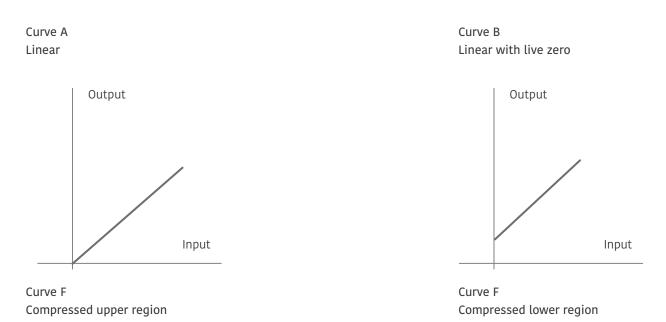
Measurement function (Measurand)	Output type	Output range	No of output	Accuracy class
Voltage, current, frequency, active power	Option for mA or V	0-20 mA, 4-20 mA, 0-10 mA, 0-5 mA* 0-2 mA*, 0-1 mA*, 0-5 V, 0-10 V	2	0.2, 0.5, 1.0

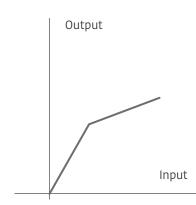
*available in accuracy class 1.0 only

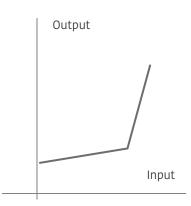


DPT100: single phase

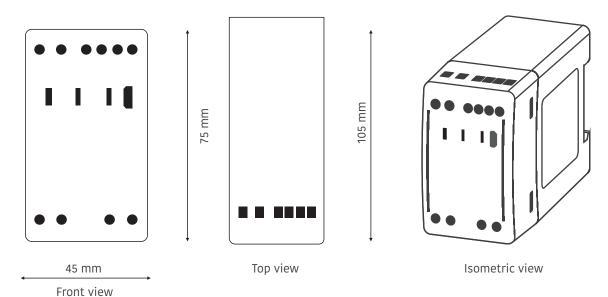
Output cuves







Mechanical dimensions





Technical specifications

Site-configurable measurement functions (measurands)

AC/DC voltage					
Nominal input (U _n)	57.7 to 415 V				
Measuring range	0 to 130 % U _n (up to 500 V)				
Measurement frequency	50/60 Hz (±5%)				
Burden	≤ 0.2 VA				
Maximum overload voltage					
Maximum overtoad voltage	1.3 x U _n continuously (500 V max.) 2 x U _n for 1 s, with up to 10 repetitions at 10 s intervals				
Coole fester					
Scale factor	0.8 to 1.3 U _n				
AC current					
Nominal input (I,)	1 A to 5 A				
Measuring current range	0 to 150 % I _n				
Scale factor	0.6 to 1.5 of I				
Burden	≤ 0.2 VA				
Maximum overload current	2 x In continuously				
	20 x In for 1 s, with up to 10 repetitions at 100 s intervals				
Frequency					
Nominal input voltage (U,)	57.7 to 415 V				
Measurement range	45 Hz to 55 Hz or 55 Hz to 65 Hz				
Accuracy	±0.2%				
Active Power					
Nominal input voltage (U)	57.7 to 415 V				
Input voltage range	0 to 130 % U _n (up to 500 V)				
Nominal input current (I _n)	1 A to 5 A				
Input current range	0 to 150 % I _n				
Measurement frequency	50/60 Hz (±5%)				
Scale factor	0.5 to 1.5 of $U_n \times I_n$ (at unity power factor)				
High auxiliary					
Nominal voltage range	80 to 276 V AC/DC (±10 %)				
Frequency	50/60 Hz				
Maximum burden	≤6VA, 3W with one output at 750 Ω				
	≤7VA, 3.5W with two outputs at 750 Ω each				
Low auxiliary					
Nominal voltage range	24 to 80 V DC (±10 %)				
Maximum burden	\leq 3 W with one output at 750 Ω				
	\leq 4 W with two outputs 750 Ω each				
Analogue outputs					
Output type	mA or V				
Maximum load resistance					
	\leq 750 Ω for 20 mA, \geq 2 k Ω for 10 V(for each output)				
Response time	5 cycles measurement (≤100-220 ms) <0.4 % peak to peak				
Ripple					

Technical specifications

Temperature range						
Operating range	-5 °C to +55 °C					
Storage range	-25 °C to +70 °C 1					
Usage group						
Mechanical						
Dimension (W x H x D)	45 x 75 x 105 mm					
Weight	0.4 kg approx.					
Material	Fire-retardant polycarbonate (PC-FR), UL94 V-0					
Mounting	DIN (EN 50022)					
Connector type	Screw terminals					
Conductor size for terminals	≤4 mm²					
Environmental						
Protection class	II (double insulation) EN 61010-1					
Pollution degree	2					
Installation category	CAT III for \leq 300V AC and CAT II for \leq 600V AC					
Protection degree	Protection housing: IP 40, terminals: IP 20					
Compliance						
Standards	IEC 60688, IEC 61010-1, IEC 61010-2-30,					
	IEC 61326-1, DIN 50022					
Communication ports						
Micro USB	For on-site configuration (can be configured without auxilary power)					
Configuration software tool	ConfigView For on-site configuration of measurement inputs, measurands, output curve and					
	online parameter reading. It can be freely downloaded from www.cewesecure.se					
Ordering key						
DPT XX1-1XF	X X 1 – 1 X F					
Evenable						

Example DPT 611-12F Accuracy where high auxiliary (6), Output 1: Cl 1.0 mA output (1), accuracy class 0.2 1: mA 2: Cl 0.2 2: V 5: Cl 0.5 Aux supply 7: Accuracy 6: High as per 7: Low configuration UAE India, SE Asia, Africa

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