



# A8

## Single phase induction electricity meter



A8 - Electromechanical watt-hour meters by PAFAL.

### MAIN FEATURES

- Watt-hour meters for the measurement of alternating current electrical energy in single-phase two-wire and three-wire circuits
- Watt-hour meters assembled in DIN or BS cases made of thermoplastic material
- Watt-hour meters with pulse output device (option) enable conversation of measured energy into proportional number of electrical impulses. These impulses can be received by energy and power registers or other devices designed to cooperate with passive output of the meter.

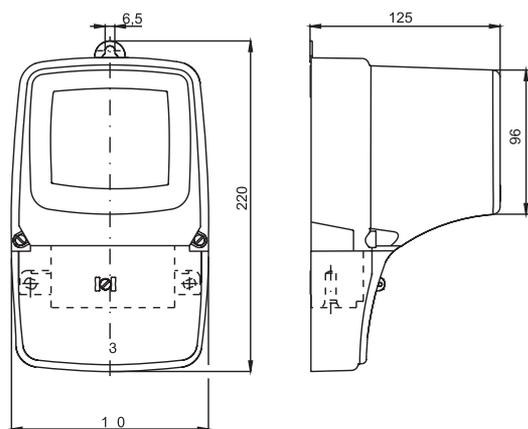
### OPTIONAL FEATURES

- Watt-hour meters with single- or two-rate registers and time switch built-in terminal cover

Reliable, Simple and Proven in Practice

# SPECIFICATIONS

Reference voltage ( $U_n$ )	[V]	220; 230; 240					120
Supply frequency	[Hz]	50 / 60					
Starting current	[mA]	25	50	75	100	75	
Basic current ( $I_b$ )	[A]	5	10	10	15	20	15
Maximum current ( $I_{max}$ )	[A]	20	40	60	60	80	60
Surge withstand capability	[kV]	6					
AC insulation test voltage	[kV]	4					
Accuracy class		2.0					
IP Rating	[IP]	55					
Number of tariffs		One or two					
Register		7 digits					
Lower bearing		Double-jewel or magnetic suspension					
Upper bearing		Needle					
Working temperature		-30 to +70 °C					
Power consumption in voltage circuits	[W/VA]	1.1 / 4.4					
Power consumption in current circuits	[VA]	0.2					
Meter constant	[rev/kWh]	600	375	250	187.5	450	
Impulse constant	[imp/kWh]	600	375	250	187.5	450	
Pulse output device		$U_{max} = 27 V; I_{max} = 20 mA$					
Dimensions w/h/d	[mm]	130 / 220 / 120, acc. to DIN					
Weight	[kg]	1.2 - 1.4					
Standards		IEC EN 62052-11, IEC EN 62053-11					



A8 meter's overall dimensions acc. to DIN

## 6A8d

- 6** ratio of maximum current to basic (rated) current  $I_{max}/I_b$ ,
- A** induction single-phase meter (for single-phase two-wire circuits)
- 8** design designation
- a** meter for indirect and semi-direct measurement (the lack of "a" letter means meter for direct measurement)
- b** meter for reactive energy (lack of 'b' letter means meter for active energy)
- c** double-rate mechanical register
- d** reversal-preventing device
- g** pulse output device
- m** magnetic lower bearing
- z** voltage circuits' malfunction indicator

## Wiring diagrams

