

ACTIVE POWER & ENERGY



The T25-WE are electronic transducers converting active power and energy in single or three phase balanced or unbalanced systems to simultaneously produce an analogue DC output for instantaneous power signal and a digital pulse output for cumulative energy signal, available for Unidirectional and Bidirectional.

Models

T25-WE10	-	Single phase watt & watt-hour transducer
T25-WE12	-	3ph 3w bal. Load watt & watt-hour transducer
T25-WE13	-	3ph 4w bal. Load watt & watt-hour transducer
T25-WE20	-	3ph 3w unbalanced Load watt & watt-hour transducer
T25-WE30	-	3ph 4w unbalanced Load watt & watt-hour transducer

General Specifications

Test voltage
4kV AC rms 1min between terminal/case
2kV AC rms 1 min between input/output/
auxiliary according to IEC801-4

Impulse test
5kV, 1.2/50 μ s according to IEC 255-4

Noise test
2.5kV, 1MHz according to IEC 255-22-1

Radio Screening
RFI degree complies with VDE0875

Working condition
-5 °C to 60 °C, 20-99% RH
non condensing

Storage condition
-20 °C to 70 °C, 20-99% RH
non-condensing

Humidity
JWE operation class according to
DIN 40040

Stability
100 ppm / °C, < \pm 0.2% drift per year,
non cumulative

Magnetic effect
< 0.05% change 1M centre 100AT,
synchronized with line frequency

Aux power effect
< 0.005% per volt change

Technical Specifications

Input
Voltage
69V (3ph 4w), 120V, 240V or
415V, \pm 25%
burden
0.2VA
permissible overload
1.25 X rated voltage continuous,

Current
1A, 5A
burden
0.3VA typically
permissible overload
2 X rated continuous,
10 X rated - 10 sec,
25 X rated - 2 sec,
50 X rated - 1sec,

Frequency
50 or 60 Hz \pm 2Hz

Output
Output ranges
0...1 mA into 0-10k Ω
0...5 mA into 0-2k Ω
0...10mA into 0-1k Ω
0...20 mA into 0-500 Ω
4...20 mA into 0-500 Ω

0...1V, min 200 Ω
0...5V, min 1k Ω
0...10V, min 2k Ω
1...5V, min 1k Ω
2...10V, min 2k Ω
(Other ranges on request)

Accuracy (23 \pm 5 °C)
 \pm 0.2% RO according to IEC 688-1

Output load
current - 10V drop max.
voltage - 5mA drive max.

Output rating (digital)
Open collector type - max. 30V/30mA;
reed relay type - max. 50V/40mA
export pulse optional

Ripple Factor
less than 0.5% p-p

Response time
< 400ms

Output Adjustment
span & zero adjustments where applicable

Auxiliary Power Supply

Standard Range
110V, 220V \pm 20% 50/60Hz, < 4VA

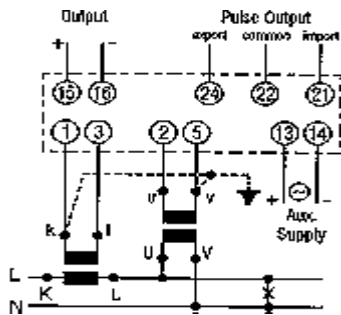
Options
self power and other AC power supplies
up to 440V ac on request. DC powered
models available at additional costs

Physical Specifications

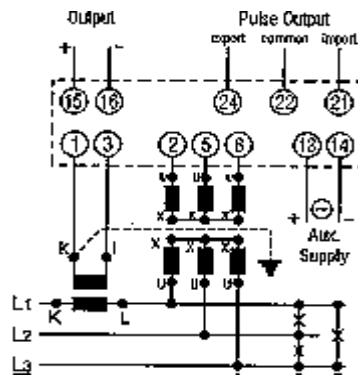
Dimensions
100W x 78H x 116D mm
Enclosure code
IP 50 (case)
IP 30 (terminal)
according to IEC 529/DIN40050

Wiring Connections

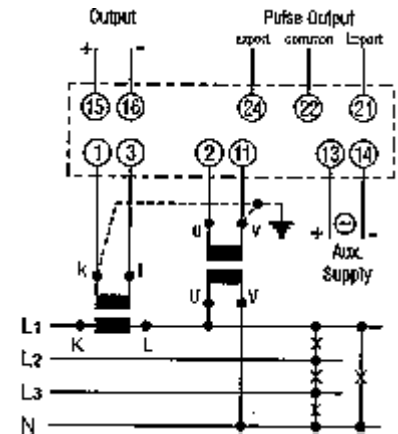
T25-WE



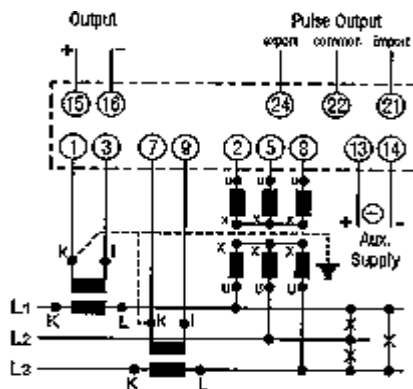
Single Phase ~ T25-WE10



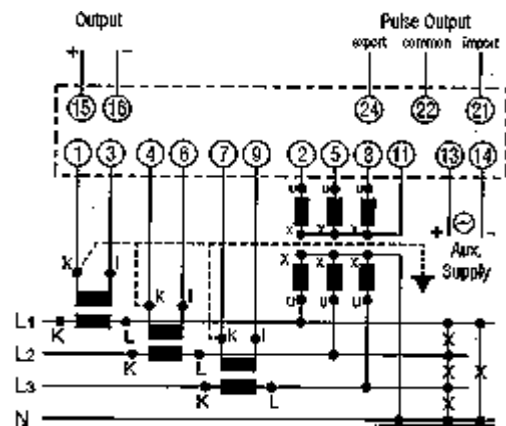
3 Phase 3 Wire Balance Load
T25-WE12



3 Phase 4 Wire Balance Load
T25-WE13



3 Phase 3 Wire Unbalance Load
T25-WE20



3 Phase 4 Wire Unbalance Load
T25-WE30

Dimensional Drawings

