

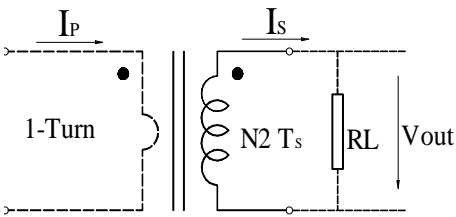
CT24 Series 50/60Hz Current Transformers (AC)

Technical data:

Standard range of current transformers for electronic wathour meters

| Part Number | primary current range | | Accuracy Class | Phase ϕ (I) | Amplitude f(I) | ues at output | | | Pin Lead |
|-------------|---------------------------|-------------------------------|----------------|------------------|----------------|---------------|-----------------------|--------------------|----------|
| | I_N [A _{rms}] | I_{max} [A _{rms}] | | | | [%] | DCR(max) [Ω] | R_L [Ω] | |
| CT24-1 | 60 | 100 | 2 | — | ± 2 | 560 | 75 | 1.45 | L |
| CT24-2 | 100 | 200 | 2 | — | ± 2 | 85 | 50 | 2.08 | L |

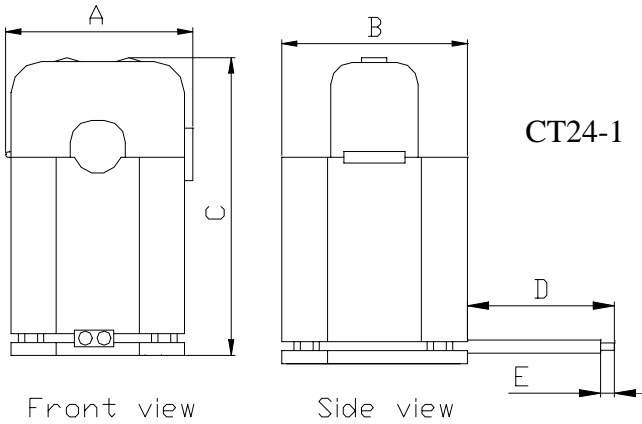
Test Circuit



$$V_{out} = I_s \times R_L$$

Series Mechanical Dimensions:(mm)

| Part Number | A(max) | B(min) | C(± 0.3) | D(± 0.3) | E(± 0.3) | F(± 0.3) |
|-------------|--------|--------|----------------|----------------|----------------|----------------|
| CT24-1 | 26.5 | 26.5 | 40.0 | 150.0 | 6.0 | |
| CT24-2 | 64.5 | 24.0 | 69.5 | 7.2 | 23.4 | 24.7 |



Explanation of table:

I_N = primary current range with defined error tolerances

I_{max} = maximum AC-primary current without saturation
i. e. $f(I_{max}) \leq 1\%$

ϕ (I) = max. phase error within the range of I_N

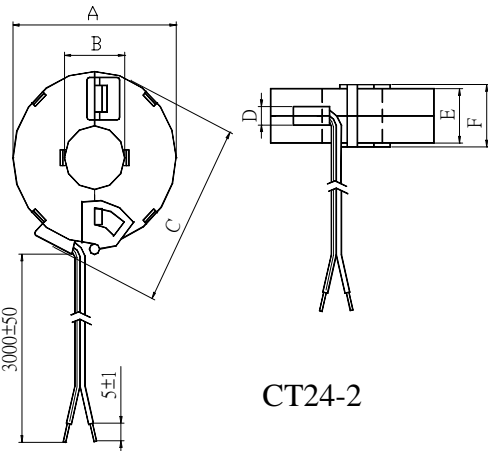
f(I) = max. amplitude error within the range of I_N

DCR = winding resistance of transformer at 25°C

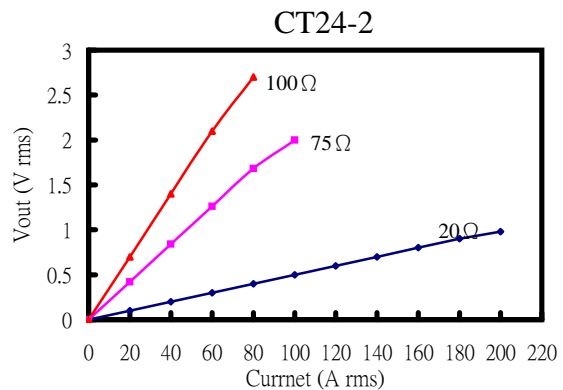
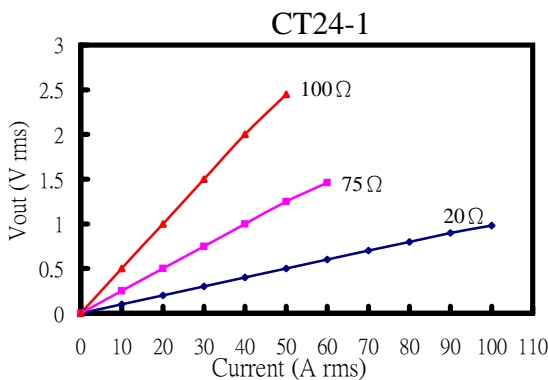
R_L = Burden resistor for signal amplitude of V_{out} at I_{Nmax}

U_{OUT} = Output voltage at R_L at maximum I_N

L = Lead Type



Output Characteristic:



Application: Be widely used for power measurement, Energy meters. Electricity dispenser. calibrator, Precision current. Power phase. Power factor transducer, transducer, all kinds of digital meters for Power frequency and proportion output, serve feedback control, etc.