

PANEL BOARD AMPEREMETER



■ Features / 產品特色

The types of operating principle of Ammeter are the rectifier type and the moving iron type, and the rectifier type Ammeter has a merit of measuring small current value compared with moving iron type. 本安培計的操作原理型式有整流器型式和動鐵芯式，相較於動鐵芯式安培計來說，整流器型式的優點在於可以量測出較小的電流值。

- To deal with current exceeding 5A, use a 5A(1A) meter in combination with a C.T. 當輸入電流超過 5A 時，結合 C.T 使用 5A(1A) 的安培計。
- The full scale of ammeter are indicated from 5~10000A etc. 安培計上的全刻度可選擇由 5~10000A 等範圍。

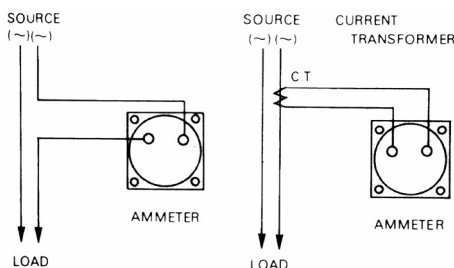
- A.C ammeter is used with a current transformer externally mounted, and it is noted that primary current of a current transformer and a full scale of the meter are identical when used. 安培計通常與外接的比流器一起使用，它用來指示比流器一次側的電流值，使用時，指針可以指示安培計上的全刻度範圍。
- If the circuit voltage exceeds 500V even when the current is less than 5A, use a 5A (1A) meter in combination with a C.T to ensure insulation. 假如輸入電流小於 5A，但是電壓超過 500V，建議搭配比流器以確保絕緣性。
- The scale range of ammeter for motor circuit is extended up to 150%~500% of rated current, so that these meters are protected from the impact of the starting current and ensured of long life. 用於馬達電路的安培計刻度範圍會增加 150%~500%，因此可保護安培計承受馬達的啟始電流的衝擊，增加安培計壽命。
- AM expanded scale has the normal maximum reading (upper limit of the effective measurement range) at the app. 65% point on the scale, and the rest of it (65%~100%) is devoted to extension reading (tolerance of extension area: +5%) 安培計的刻度有正常最大讀取值(最高有效量測範圍)在刻度上的 app.65% 位置上。在這之後的位置(65%~100%)代表延伸讀取值(此區域精準度為 ±5%)
- Angle of deflection: 250° 指針偏斜角度：250°
- ANSI C39.1, C12.10
- Impulse voltage withstand 2.5KV/1min(1.2/50us) 耐受衝擊電壓：2.5KV/1min(1.2/50us)
- Readily accessible span and zero adjustments 簡易的刻度辨識與歸零校正

■ Rating / 產品規格

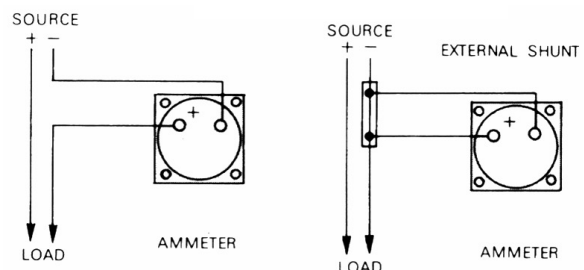
Type/型號	Size/尺寸	Rating/額定	Freq(Hz)/頻率	Burden(VA)/耗能	Class(%) /精準度	Operating method/ 操作原理
D-800 AC	80X80mm	5A	50/60	1.5	±1.5 (option: ±1.0)	→
D-800 DC		50mV	—	50mV Drop		→
D-110 AC	110X110mm	5A	50/60	1.5	±1.5 (option: ±1.0)	→
D-110 DC		50mV	—	50mV Drop		→

■ External connection diagram / 接線方式

AC Ammeter

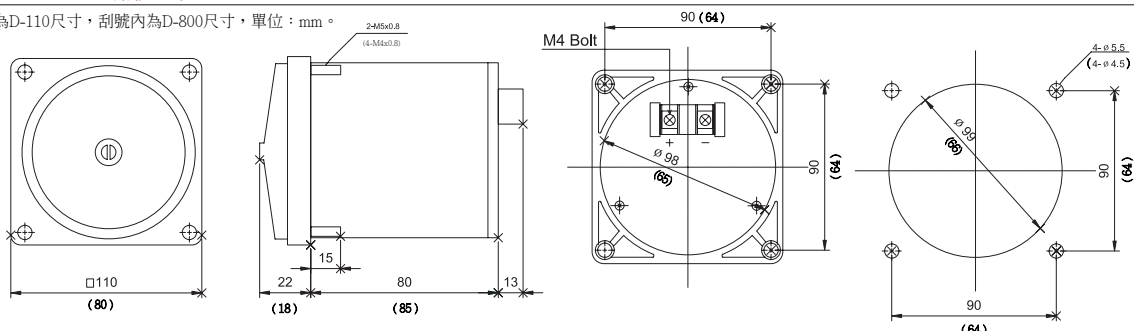


DC Ammeter



■ Dimension / 產品尺寸

※ 正常為 D-110 尺寸，刮號內為 D-800 尺寸，單位：mm。



PANEL BOARD VOLTMETER



■ Features / 產品特色

The AC Volt meter is rectifier type and moving iron type. The types of operating principle of voltmeter are the rectifier type and moving iron type. The voltmeter is used with a potential transformer externally mounted in case of high voltage. 交流伏特計操作原理型式有整流器型式和動鐵芯式。使用在高壓系統時，伏特計必須與外加的變壓器一起使用。

- For higher ranges than 300V, use potential transformer (P.T) with a 150V A.C voltmeter. But the voltmeter of 600V is able to supply by order of customer. 當電壓超過 300V 時，需拿變壓器搭配 150V 伏特計來使用。也可以客製訂購 600V 的伏特計。

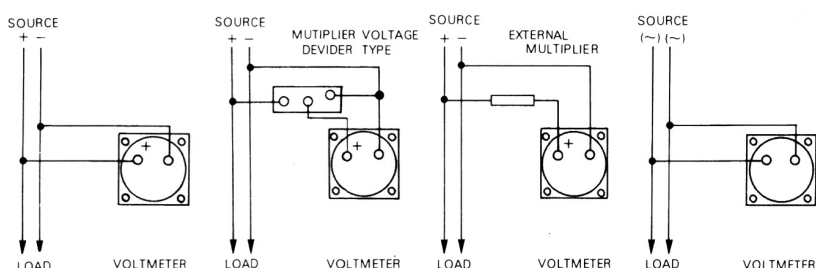
- When lettering the voltage ratio on voltmeter, the meters for 3phase 4wire are the indicating for line-to-line voltage by line-to-ground voltage, and line-to-line voltage by line-to-line voltage, the meters are not writed the $\sqrt{3}$ 當在刻寫電壓比於伏特計上時，三相四線的線電壓表示的是電線與接地的電壓。如果線電壓是指線與線間的電壓，面版上不會刻上 $\sqrt{3}$ 。
- Full scale of voltmeter when use the P.T, the standard calibration value of voltmeters are 150V and/or 300V, but the full scale of voltmeters are indicated the 150V~69KV etc. 當使用變壓器時，可全刻度指示，標準的刻度是 150V 或 300V。但伏特計的全刻度可以從 150V~69KV。
- Angle of deflection : 250° 指針偏斜角度：250°
- ANSI C39.1, C12.10
- Impulse voltage withstand 2.5KV/1min(1.2/50us) 耐受衝擊電壓：2.5KV/1min(1.2/50us)
- Readily accessible span and zero adjustments 簡易的刻度辨識與歸零校正

■ Rating / 產品規格

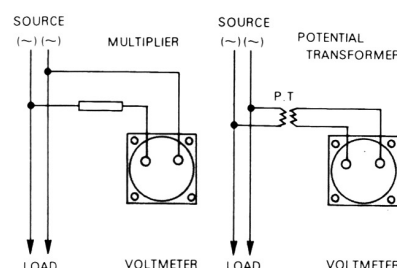
Type/型號	Size/尺寸	Rating/額定	Freq(Hz)/頻率	Burden(VA)/耗能	Class(%) /精準度	Operating method/操作原理
D-800 AC	80X80mm	150V, 300V, 600V	50/60	0.5	± 1.5 (option: ± 1.0)	
D-800 DC		50V, 600V	—	1K Ω / V		
D-110 AC	110X110mm	150V, 300V, 600V	50/60	0.5	± 1.5 (option: ± 1.0)	
D-110 DC		50V, 600V	—	1K Ω / V		

■ External connection diagram / 接線方式

DC Voltmeter

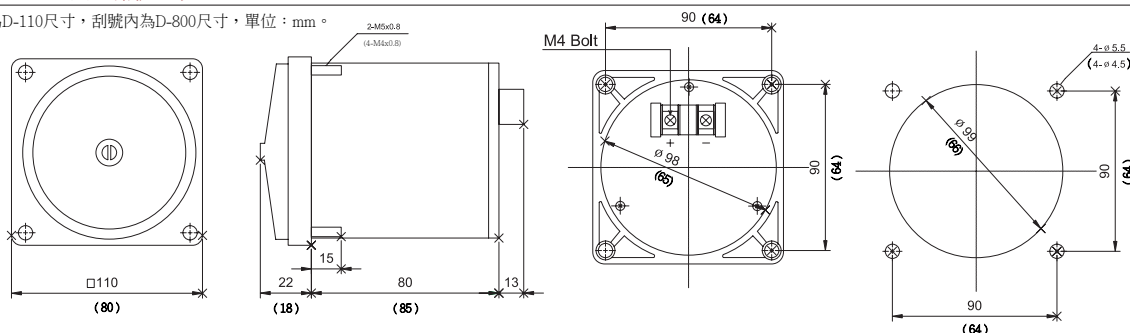


AC Voltmeter



■ Dimension / 產品尺寸

※ 正常為D-110尺寸，括號內為D-800尺寸，單位：mm。



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