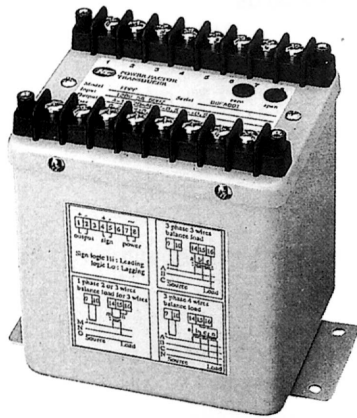


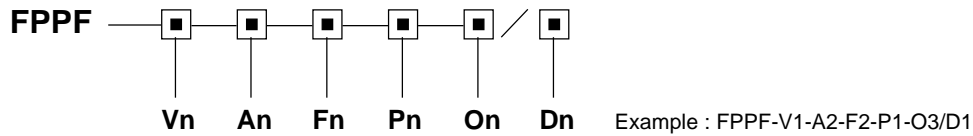
# POWER FACTOR TRANSDUCER



## Applied Standards & Rules

Measuring and conversion	IEC 688 / 1992 - 04
Dielectrical strength	IEC 688 2KVac / 1 min.
Surge and Impulse test	ANSI C37.90 / 1989
	IEC 255-3 (1989) 4KV 1.2 x 50 us

## Order form



## Input & Output parameters

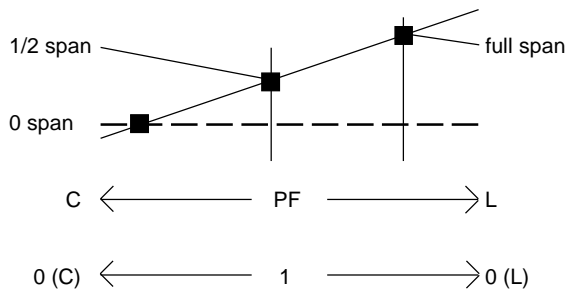
Vn : Voltage input	Vn rating range	V1	V2	V3	Vy Specified	On : Output		
		120 V	240 V	480 V		O1	O2	O3
An : Current input	An rating range	A1	A2	A3	Ay Specified	O4	O5	O6
		1 A	5A	10A		0 - 1 V	0 - 5 V	0 - 10 V
Fn : Frequency input	Fn rating range	F1	F2		Fy Specified	O7	Oy	
		50 Hz	60 Hz			2 - 10 V	Specified	
Pn : Auxiliary power	Pn rating range	P1	P2	P3				
		AC 120 V	AC 240 V	Internal power ( 120V or 240V )				
		120 V ± 15%	240 V ± 15%					

## Calibration : Dn

**Unipolar output** ( as 0-10V, 4-20mA, 0-10mA )

**D1** : 0.5 (C) to 1 to 0.5 (L) vs 0 to 1/2 span to full span output

**D2** : 0 (C) to 1 to 0 (L) vs 0 to 1/2 span to full span output



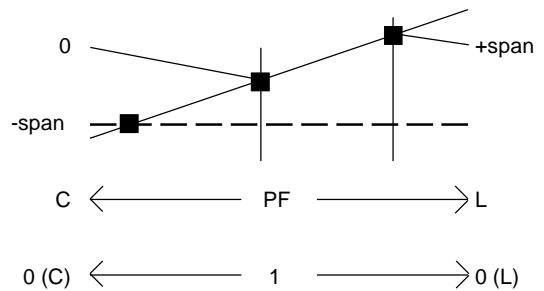
**Note** : (C) : capacitive load (L) : inductive load

Example : PPPF-V1-A2-F2-P1-O3/D1  
 Input : AC 85-150V 0-5A 60Hz  
 Output : 4-12-20mA vs 0.5(C) - 1 - 0.5(L)  
 Aux. power : AC120V

**Bipolar output** ( as ±1mA, ±10mA, ±10V )

**D3** : 0.5 (C) to 1 to 0.5 (L) vs -span to 0 to +span output

**D4** : 0 (C) to 1 to (L) vs -span to 0 to +span output



**Note** : (C) : capacitive load (L) : inductive load

Example : PPPF-V1-A2-F1-P1-O1/D3  
 Input : AC 85-150V 0-5A 50Hz  
 Output : -1mA - 0 - +1mA vs 0.5(C) - 1 - 0.5(L)  
 Aux. power : AC120V

## Specification

<b>Accuracy ( 23±3°C )</b>	0.25% RO + 0.3°		
<b>Maximum output load</b>	DC current mode : maximum 10V drop DC voltage mode : maximum 5mA drive		
<b>Dielectric strength</b>	AC 2KV 1 minute between terminals; AC 2.6KV 1 minute / terminals to case		
<b>Surge and impulse test</b>	ANSI C37.90 / 1989, IEC 255-3 (1989) 4 KV 1.2 x 50 us		
<b>Maximum input over</b>	Current related input	Voltage related input	
	1A / 5A	10A	
	4 x rated / continuous	2 x rated / continuous	1.5 x rated / continuous
	10 x rated / 10 seconds	25 x rated / 1 second	2 x rated / 10 seconds
	50 x rated / 1 second	50 x rated / 0.5 second	
	80 x rated / 0.5 second		
<b>Input burden</b>	Current less 0.2 VA; voltage less 0.1 VA		
<b>Response time &amp; ripple</b>	≤400 ms for step change 0-99%      ripple less 0.5% ro peak to peak		
<b>Frequency</b>	Named frequency ± 2 Hz		
<b>Waveform</b>	Sinusoidal		
<b>Stability</b>	Temperature range ( 20 to 26°C)	long term stability / year	
	Maximum 70 ppm / °C	less 0.2% draft / year typically	
<b>Storage condition</b>	Temperature range -25 to 70°C, RH 20 to 95% non condensed		
<b>Operating condition</b>	Temperature range -20 to 65°C, RH 0 to 99% non condensed		
<b>Magnetic field effect</b>	< 0.01% under 100 ampere turns at 1M center		
<b>Power dissipation</b>	< 3.5 VA		

## Terminal Connection

