# POWER FACTOR CONTROLLER/MONITOR

**Model : PPF-6066** *ISO-9001, CE, IEC1010*


LUTRON ELECTRONIC

*The Art of Measurement*

# POWER FACTOR CONTROLLER / MONITOR
## Model : PPF-6066

**FEATURES**

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| * Professional power factor meter with standard DIN case ( 96 x 48 mm ) and Control/Alarm function. |
| * Microprocessor circuit ensures high accuracy and provide special functions and features. |
| * Large red LED display, high brightness and easy to read. |
| * Measurement range ( no cooperate the external CT and the PT ) :<br>Power factor : 0.10 to 1.00 PF. |
| * Input signal ( without PT, CT ) :<br>ACV : 0 to 600 ACV, 40 to 400 Hz.<br>ACA : 0 to 10 A, 40 to 400 Hz. |
| * Current input can cooperate the external CT ( current transformer ) such as CT 1000/5A, CT 100/5A ...to expend the measurement range. The CT range can be adjusted with default. |
| * Voltage input can cooperate the external PT ( voltage transformer ) to expend the measurement range. The PT range can be adjusted with default. |
| * Control setting, Hi/Lo alarm setting. |
| * Control relay output, alarm relay output. |
| * Control Relay will make action when the reading value reach to control value. |
| * Alarm Relay will make action when the reading value reach to high/low alarm value. |
| * Hysteresis value setting for control and alarm function. |
| * Power : 90 ACV to 264 ACV, 50/60 Hz. |
| * RS232/USB computer interface. |
| * Option data acquisition software. |

**GENERAL SPECIFICATIONS**

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| Display | Large LED display. 4 digit LED .<br>14 mm ( 0.55 inch ) digit height .<br>5 indicators .<br>PV ( process value ) indicator<br>SV ( set value ) indicator<br>Control out indicator<br>Alarm out indicator<br>PF indicator | |
| Circuit | Custom chip of microprocessor LSI circuit. | |
| Power factor measurement | 0.10 to 1.00 PF. | |
| Input signal | ACV : 0 to 600 ACV, 40 to 400 Hz.<br>ACA : 0 to 10 A, 40 to 400 Hz.<br>** w/o PT. CT.* | |
| Sampling Time | Approx. 0.8 second. | |
| Relay Output | Number | 2 relays |
| | Function | *Relay 1 :*<br>Control relay. |
| | | *Relay 2 :*<br>High/Low alarm relay. |
| | Max load | 0.5 ACA/250 ACV<br>0.5 DCA/24 DCV<br>**** Do not apply the relay contact load current > 0.5 A, other wise the relay may be damaged permanently without warranty.*** |

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| Setting Function | *1st layer setting procedures* | CtLo ( Control low limit )<br>CtHi ( Control high limit )<br>ALLo ( Alarm low limit )<br>ALHi ( Alarm high limit ) |
| | *Second layer setting procedures* | CtSt ( CT rate setting )<br>PtSt ( PT rate setting )<br>CtHy ( Control hysteresis value setting )<br>ALHy ( Alarm hysteresis value setting ) |
| Over input | " - - - - " mark indication. | |
| Zero Adjustment | Automatic adjustment. | |
| Data Output | RS232 / USB PC Computer interface.<br>* Connect the optional RS232 cable , UPCB - 02 will get the RS232 plug.<br>* Connect the optional USB cable, USB - 01 will get the USB plug. | |
| Operating Temperature | 0 to 50 ℃. | |
| Operating Humidity | Less than 80% R.H. | |
| Power Supply | 90 to 260 ACV, 50/60 Hz. | |
| Power Consumption | Approx. 3.3 VA/AC 110V.<br>Approx. 4.9 VA/AC 220V.<br>** Under no load* | |
| Weight | 261 g/ 0.57 LB. | |
| Dimension | DIN size : 96 x 48 mm.<br>Panel cut size : 92 x 46 mm.<br>Depth : 110 mm. | |
| Accessories Included | Instruction manual..... 1 PC<br>Case holder with screw.....2 PCs | |
| Optional Accessories | USB cable , USB - 01<br>RS232 cable , UPCB - 02<br>Data Acquisition software SW-U801-WIN | |
| | * Real time SD card datalogger DL-9602SD | |
| | * GSM controller, GSM-889.<br>* Interface cable ( cable between meter to GSM-889 ), GMCB-89. | |

**ELECTRICAL SPECIFICATIONS**

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| Range | 0.10 to 1.00 |
| Resolution | 0.01 |
| Accuracy | ± ( 1.5 % + 2d ) reading |

*Remark :*
- ** Measuring Signal come from the rear terminals .*
- ** T11, T15 ACV input : 10 ACV to 600 ACV .*
  *PT ( Potential transformer ) adjust value : x 1 to x 100.*
- ** T16, T15 ACA input : 0.05 ACA to 10 ACA.*
  *CT ( current transformer ) adjust value : x 1 to x 200.*
- ** PF accuracy is test under input signal is sine wave, 50/60 Hz.*
- ** ACV frequency response is from 40 to 400 Hz*
- ** Accuracy value is specified within 23℃ ± 5℃*
- ** The above spec. accuracy are tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.*