

559CPF Power & Frequency Monitor

The 559CPF is a power and frequency monitor that communicates using the RV-C standard.

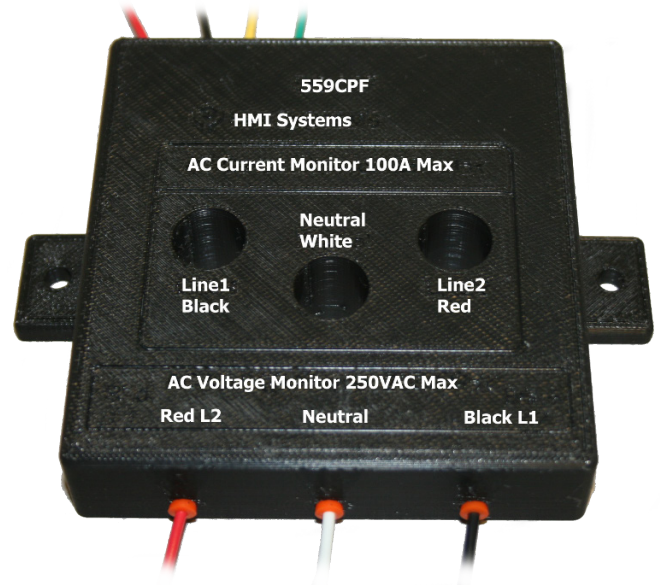
The device uses the DGN for the ATS_AC_STATUS_1 and ATS_AC_STATUS_3 instances to communicate the measured voltage, current, frequency, and phase relationship of the inputs to the RV-C network.

The voltage measurement is transformer isolated from the low voltage communication and measurement circuitry.

The current measurement is made from the L1/L2 cables passing through a toroid that uses a ratiometric hall-effect device to determine the current within +/- 1A.

Standard product has flying leads, but various connectors can be added upon request including the RV-C 4 position Molex connector.

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features

- RV-C compliant
- 2 channels AC RMS voltage measurement up to 250VAC
- 2 channels AC RMS current measurement up to 100A
- Frequency measurement of input voltage
- Phase detection (in phase, out of phase, no complimentary leg)
- Small rugged form factor completely sealed
- Designed to easily mount inside AC enclosure



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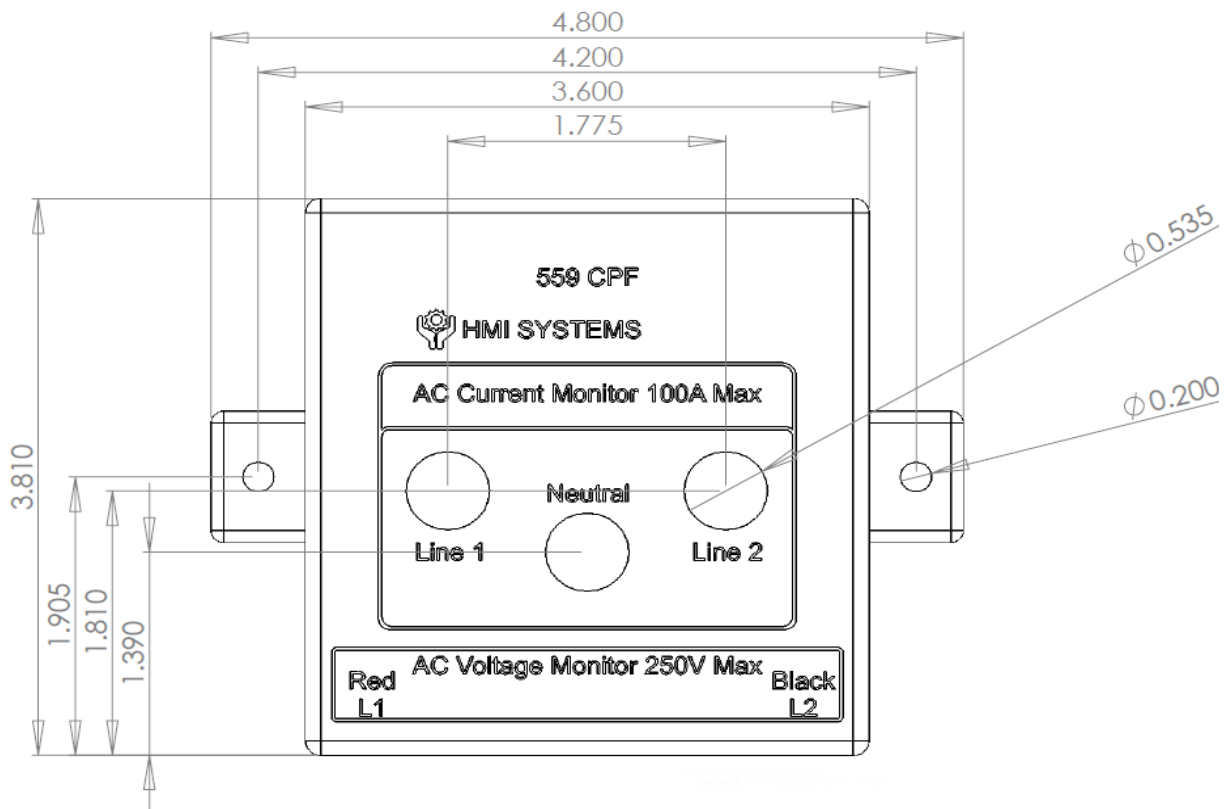
electrical specifications

Parameters		Min	Max	Units
VL1 / VL2	Line1 and Line 2 voltage measurement	0	250	Vac
IL1 / IL2	Line 1 and Line 2 current measurement	0	100	A
Iq	Current supply range @ 12VDC	-	30	mA
Vin Range	Power supply range	8	32	V
TO	Operating temperature range	-40	85	°C
TS	Storage temperature range	-55	95	°C

wiring connections

Low Voltage Side	High Voltage Side
Red – Power Input (8-32VDC)	Red – Line 2 Voltage input (250VAC Max)
Black – Ground	White – Neutral reference
Yellow – CAN-High	Black – Line 1 Voltage input (250VAC Max)
Green – CAN-Low	
<i>*Recommended mating connector: Molex -- 0039012040</i>	
<i>*Recommended terminals: Molex -- 0039000073</i>	

dimensional diagram





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