



SHUNT-BASED CURRENT MEASURING

The WireView Pro II is a device for measuring the power consumption of graphics cards using a shunt-based current measurement. It always measures the current flowing between the PSU and the GPU, regardless of the cable length or the use of extension cables, provided no current bypasses any of the measurement shunts.

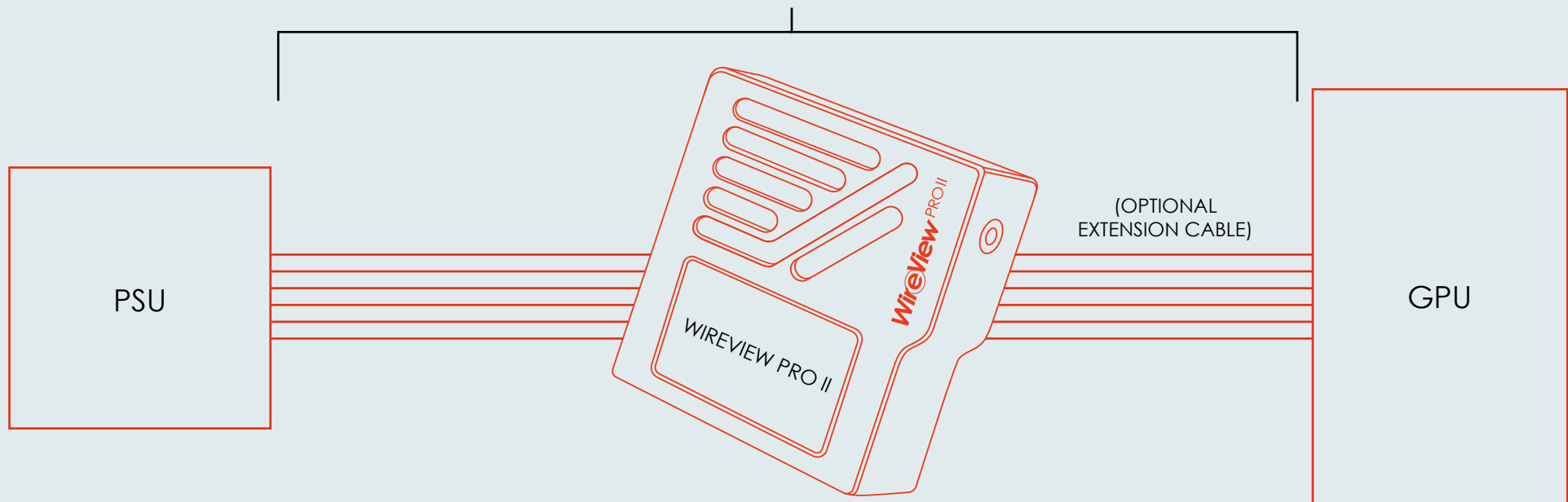
The current is measured at the WireView Pro II location, but because the same current flows through the entire series path, the measured current is the same as the current flowing through the entire series path.

- PSU -> Cable -> WVP II -> GPU
- PSU -> Cable -> WVP II -> Cable -> GPU
- PSU -> Cable -> WVP II Wired -> GPU
- PSU -> Cable -> WVP II Wired -> Cable -> GPU



WireView PRO II

DISTANCE MEASURED BY
WIREVIEW PRO II FROM PSU TO GPU

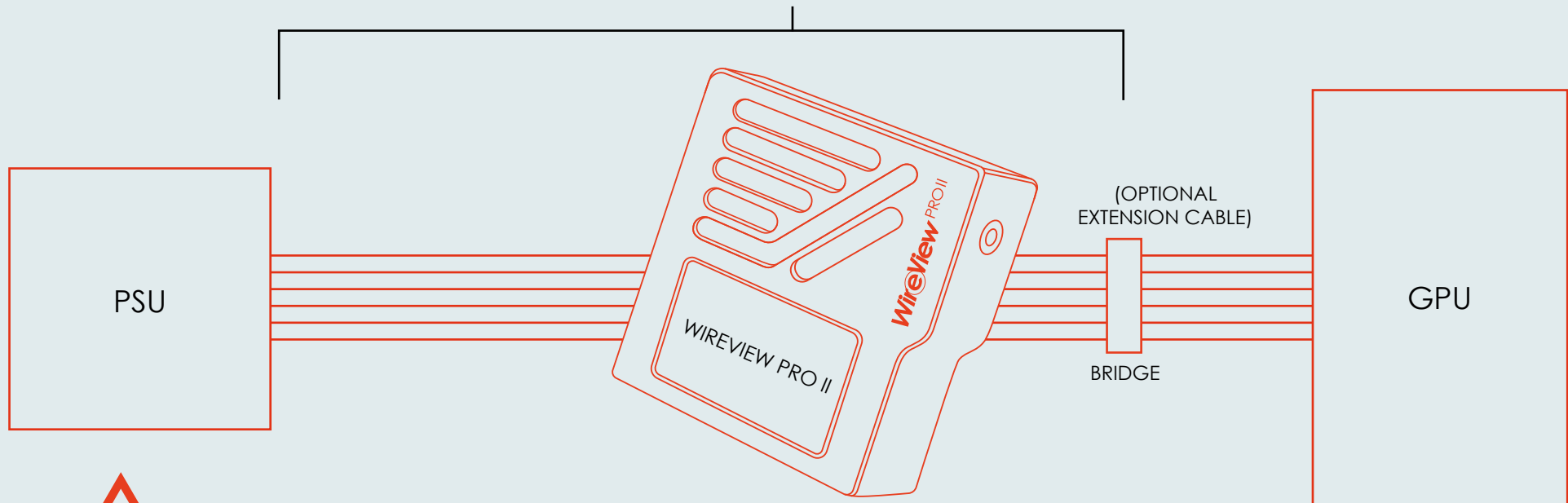


Please note: The measurement itself is not influenced by cable length or by the numbers of cable-to-device connections.

But each of these additional connections and the corresponding connectors present a point of failure. So even if it has no influence on the measurement itself, the amount of cables and connectors should be kept to the minimum.

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DISTANCE MEASURED BY
WIREVIEW PRO II FROM PSU TO BRIDGE



Please be aware:
When an adapter or connector containing an integrated bridge is used, the WireView Pro II will only measure the current up to the bridge location.

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A shunt-based current measurement uses precision resistors (R1–R6 shunts) placed in series with the power path.

All current flowing from the power supply to the load passes through these shunts, regardless of cable length or the use of extension cables. Each shunt has a precisely known resistance R . When current flows through a shunt, a small voltage drop V is generated across it. By measuring this voltage drop and using the known shunt resistance, the current is calculated according to Ohm's law: $I = U / R$.

The WireView Pro II measures this voltage drop differentially across each shunt. Since the measurement is performed directly between both terminals of the shunt, it is not referenced to ground. The ground connection is not used as a reference for the shunt current measurement. The device remains connected to ground as part of the normal power and signal path, but the current calculation is based solely on the voltage drop across the shunt and its known resistance.

Extension cables located between the measurement device and the GPU do not affect the accuracy of the current measurement, provided they do not contain any parallel current paths or integrated bypass circuits. Any current flowing through the shunt-equipped conductor is fully captured by the measurement.

The WireView Pro II calculates the following values:

- Current (A): Calculated from the measured voltage drop across each shunt and the known shunt resistance.
- Power (W): Calculated from the measured supply voltage and current using: $P = U \times I$

The voltage drops V1–V6 across shunts R1–R6 are measured, logged, and displayed by the WireView Pro II series.



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