

ARTISAN®
TECHNOLOGY GROUP

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Plug-on Voltage Divider Bases



Voltage dividers and voltage divider/preamplifiers allow you to supply the proper operating high voltage distribution to the photomultiplier tubes (PMTs) and to get the signal from them to your system electronics. These devices can be plugged onto or hard-wired to PMTs.

Voltage dividers used by Saint-Gobain Crystals are resistive (or transistorized) devices specially designed to accelerate electrons from the cathode to the anode of a phototube.

There are design considerations when considering electronics:

- What is the application?
- Which PMT is being used and why?
- Positive or Negative HV?
- Count rate: Typical and Maximum
- What are the electronics that the detector will be connected to?
- Preamp question: Charge sensitive or I to V converter
    - Charge Sensitive preamps are typically used with shaping amplifiers
    - I to V converter preamps are typically used with digitizers

Features/Benefits

- Optimized to work with Saint-Gobain Crystals standard detectors
- Aluminum housing
- RoHS compliant
- Negative High Voltage options available

Specifications

- P-1210 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/p-1210-voltage-divider.pdf): 12-pin voltage divider for 10-stage PMT
- PA-1210 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/pa-1210-voltage-divider-preamp_70387.pdf): 12-pin voltage divider with preamplifier for 10-stage PMT

Feedback

- P-1410 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/p-1410-voltage-divider.pdf): 14-pin voltage divider for 10-stage PMT (8-stage option available)
- PA-1410 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/pa-1410-voltage-divider-preamp.pdf): 14-pin voltage divider with preamplifier for 10-stage PMT (8-stage option available)
- T-1410 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/t-1410-transistorized-voltage-divider.pdf): 14-pin fully transistorized voltage divider for 10-stage PMT (8-stage option available)
- TA-1410 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/ta-1410-transistorized-divider-preamp_70390.pdf): 14-pin fully transistorized voltage divider with Preamp for 10-stage PMT (8-stage option available)
- HVPA-1210 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/hvpa-1210-power-supply.pdf): 12-pin voltage divider, charge-sensitive preamplifier and power supply in one package for 10-stage PMT
- HVTA-1410 (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/hvta-1410-power-supply.pdf): 14-pin voltage divider, charge-sensitive preamplifier and power supply in one package for 10-stage PMT
- AS20, AS2612, AS2712 were designed specifically for use with LaBr detectors (/products/standard-and-enhanced-lanthanum-bromide) to optimize the performance benefits

Related Resources

Voltage Divider Design Considerations (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/voltage-divider-design-considerations_70391.pdf)

Contact us to learn more! (/request-contact?product=Plug on Bases)

Feedback

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Feedback

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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