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## Attenuators and Accessories for use with North Star HV Probes and Dividers



Model Number	AT-2	AT-5	AT-10
Ratio	2	5	10
Bandwidth (Mhz)	>100	>120	>100
Bandwidth with 120 Mhz probe	70	90	60
Rise (ns)	4	4	4
Res/Cap transition ft (kHz)	6	12	18
DC accuracy	0.2%	0.25%	0.3%
Accuracy f>2ft	1.5%	1.5%	1.5%
Input R/C (Megohm/pf)	1.0/23	1.0/12	1.0/8
V Max Input (V)	300	300	300
Length (inches/mm.)	2.7/68	2.7/68	2.7/68
WidthXHeight (mm)	29X15	29X15	29X15

Signal integrity is important in all measurements but critical in high voltage measurements because of the large amount of attenuation required. When a high voltage probe order is placed, we offer considerable flexibility in the choice of attenuation. Our new external attenuators add a further degree of flexibility by attenuating a signal accurately and with only modest reduction in bandwidth at the oscilloscope input. The attenuators are calibrated for a wide variety of input capacitances ranging from 10 pf to 25 pf in “click stops”. These units should be directly connected to the oscilloscope 1Megohm input (not for use with 50 ohm scope inputs). Note that inaccuracy in the oscilloscope input impedance will affect the DC accuracy of the attenuator. All attenuators are calibrated for 1.000 Megohms’ input.

These units also include damping for frequencies above the range of applicability to ease very high frequency signal problems.

An example of the use of this device is for a PVM-5 with a 1000:1 input for most applications. However when occasional signals to 100 kV pulse must be measured into a 5V/division input, a 2X or 5X attenuator extends the range of use. 1000X also has twice as much signal so for the majority of measurements the signal to noise ratio for 1000X is used and it is twice as high as for 2000:1.

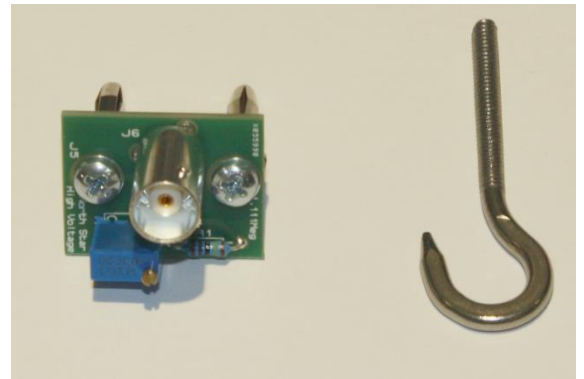
These devices may be used with non-North Star equipment, and equipment other than HV Probes in most situations.

## Other Probe Accessories

Accessories which are available for purchase are now a hook for PVM probes and a resistive adapter (1.111 Megohm).

### Adapter AD-10

The adapter simplifies the use of our probes with 10 Megohm input meters while providing adaptation between the standard double banana plug arrangement at the meter, and a BNC connector. Note that inaccuracy in the oscilloscope input impedance will affect the DC accuracy of the attenuator. All adapters are calibrated for 10.000 Megohms' meter input.



### M4 Hook

A hook is sometimes useful and we also offer a hook with an M4 thread matching the “nose” of the PVM-1,2,3,4,5,6,7,100 probes.