TEGAM

Thermistor Power Meter Comparison

	TEGAM 1830A	Agilent 432A	Agilent N432A	Advantage
Absolute Power Meter Accuracy	±0.1% @ 1mW, 50 MHz ±(0.05% of reading, ±0.5 µW)	±0.25% @ 1mW, 50 MHz ± (0.2% of reading + 0.5 µW)	±0.25% @ 1mW, 50 MHz ± (0.1% of reading + 0.5 µW)	1830A superior for 1mW reference transfer
Selectable resistances Bridge Resistance	50 to 300 Ω	100 and 200 Ω	100, 200, 300, and 400 Ω	Varies depending on need. TEGAM more flexible but N432 has 400 Ω range.
Frequency Range (Sensor Dependant)	100 kHz to 110 GHz	100 kHz to 40 GHz	100 kHz to 18 GHz	1830A
Supported Sensors	478A, 8478B, S486A, G486A, J486A, H486A, X486A, M486A,P486A, K486A, R486A, 1107-8, 1807, M1110, M1111, M1118, M1120, M1125, M1130, M1135, 1109, F1116, F1117, F1119, F1125, F1130, F1135, Any Hughes, Millitech General Microwave, Mounts	478A, 8478B, S486A, G486A, J486A, H486A, X486A, M486A,P486A, K486A, R486A	478A, 8478B,	1830A
Meter Calibration	TEGAM recommends a one- year calibration cycle. Automated web-based procedure. About 1 hour of time commitment for trained technician. Typical lab equipment needed.	Agilent Technologies recommends a 6-month calibration cycle. Manual procedure. . About 3 hours of time commitment for trained technician. 8477A calibration fixture required.	Agilent Technologies recommends a one-year calibration cycle. Manual procedure. . Estimating about 1 to 2 hours of time commitment for trained technician. Requires 4 DMM's.	1830A but Agilent made significant improvements from the 432A to the N432A.
U.S. Base Price	$6,795	$12,733	$8,764	1830A
Warranty (3 year)	Included	$982	$354	
Calibration Data	Included	$646	$360	
Total (Typical Configuration)	$6,795	$14,361	$9,478	