

AX4101, AX4102, AX4103
 AX4105, AX4115, AX4125
 AX4130, AX4190

Universal Counters

AX 4101/4102/4103 Multifunction counters

Specification	AX 4101, AX 4102, AX 4103
Function	Measure frequency, period, totalize self-calibrate
Frequency range	1Hz ~ 1.5GHz (AX 4101), 1Hz~2.5GHz (AX 4102), 1Hz~3GHz (AX 4103)
Period range	10ns ~ 1s
Totalize capability	10 ⁸ -1
Sensitivity	40mVrms (1Hz ~ 10Hz) 20mVrms (10Hz ~ 100MHz) 30mVrms (100MHz ~ 3GHz)
Input impedance	1M Ω / 40pF (Channel A) 50 Ω (Channel B)
Input voltage	20mVrms ~ 250Vp-p (Channel A) 30mVrms ~ 1Vrms (Channel B)
Couple mode	AC
Measure error	± Time base accuracy ± Trigger error x Measured frequency (or Period) ± LSD
Time base stability	± 5 x 10 ⁻⁶ /d
Power source	110 ~ 127VAC ± 10% / 220 ~ 240VAC ± 10%, 50Hz ± 2Hz / 60Hz ± 2Hz
Dimensions (W x H x D)	210 x 80 x 230mm
Weight	1.8kg

Features AX 4101, AX 4102, AX 4103

- . Under the control of MCU
- . Equal accuracy measure
- . Measure speed: 20 times/s
- . High performance, low Price, high reliability
- . Special apply to crystal with PPM F₀
- . PPM measure F₀ preset able
- . Channel A has LP filter and x20 attenuator function
- . 10 LED display (8 data, 2 exponent)



AX 4105/4115/4125/4130/4190 Precision Counter - PhaseCounter

Specification AX 4105, AX 4115, AX 4125, AX 4130, AX 4190

Function	Measure frequency, time interval (average), period, frequency ratio, totalize, PW (average), duty cycle (average), phase (average), self-calibrate and etc.
Measure frequency range:	0.14MHz~150MHz (Channel A & Channel B)
Extend frequency	100MHz~1.5GHz (Channel B for (AX 4190))
Channel C	100MHz~500MHz (AX 4105) 100MHz~1.5GHz (AX 4115) 100MHz~2.5GHz (AX 4125) 100MHz~3GHz (AX 4130) 1.5GHz ~ 9GHz (AX 4190)
Input voltage	30mVrms ~ 1.5Vrms (100MHz below) 50mVrms ~ 1.5Vrms (100MHz ~ 1.5GHz) 30mVrms ~ 1Vrms (1.5GHz ~ 9GHz)
Period range	7ns ~ 7000s
Time interval range	20ns ~ 7000s
Phase range	0 ~ 360°
PW range	≥ 20ns, (cycle < 100s)
Duty cycle range	1 ~ 99%, (cycle < 100s)
Measure accuracy	± 7 x 10 ⁻⁹ / Gate time (s)
Frequency resolution	9 digits / Gate time (s)
Couple mode	Channel A, B: AC / DC Channel C: AC
Input impedance	1M Ω / 45pF or 50 Ω
Totalize capacity	0 ~ 1 x 10 ¹²
Time base stability	≤ ± 1 x 10 ⁻⁸ /d
Power supply	110 ~ 127VAC ± 10% / 220 ~ 240VAC ± 10%, 50Hz ± 2Hz / 60Hz ± 2Hz
Dimensions (W x H x D)	255 x 100 x 370mm
Weight	2 kg

Features AX 4105, AX4115, AX4125, AX4130, AX4190

- . High performance 150MHz clock, frequency resolution 9 digits/s, time interval resolution 7ns
- . Apply high performance AVR CPU, LSI and CPLD device, high reliability
- . Channel C: 9GHz maximum
- . Automatic limit testing for frequency measurement
- . Math testing for frequency measurement
- . Statistics (include mean, maximum, minimum, delta, rel, PPM, stand deviance, allan variance) for frequency measurement
- . Save and store 9 different measurement state setups
- . RS 232C and Centronics printer interface

