

Two versions of the Universal APOLLO Counter/Timers

Apollo 10 Ordercode 12010AP and Apollo 100 Ordercode 12100AP

Specifications

Timebase

Crystal Oscillator Frequency Apollo10 / 100: 10MHz
Time between Measurements Apollo10 200ms nom
Apollo100 Adjustable 200ms to 10 sec nom
(Hold Control)

Ageing Apollo10 / 100: ± 0.5 ppm/year
Stability Apollo10 / 100: ± 0.5 ppm
Temperature Stability Apollo10 / 100: ± 10 ppm -10°C to +70°C

Input A

Bandwidth / Sensitivity Apollo10 / 100: 10MHz range < 5 mVDC- 10MHz
100MHz range < 10 mV 1MHz-
50MHz
 < 30 mV 50MHz - 100MHz

Coupling & Input Impedance

Apollo10 / 100: DC @ 1MW / 30pF; AC @ 1MW / 30pF;50R
Low Pass Filter Apollo10 / 100: Coupling DC; cut-off freq. 50kHz nom;sw.sel.
Max Input Voltage Apollo10 / 100: AC Coupling: 50V DC or 250V rms @ 50Hz
decreasing to 5V rms @ > 70 kHz; DC
Coupling: 300V DC

Triggering

Apollo10 / 100: Level adjustable, +ve or -ve edge;
L.E.D's indicate when triggered

Attenuator

Apollo10 / 100: x1, x10 switchable

Input B

Bandwidth / Sensitivity Apollo10 / 100: < 5 mV DC - 2MHz

Coupling & Input Impedance

Apollo10 / 100: DC @ 1MW / 30pF; AC @ 1MW / 30pF;50R
Low Pass Filter Apollo10 / 100: Coupling DC; cut-off freq.50kHz; sw/sel.
Max Input Voltage Apollo10 / 100: AC Coupling: 50V DC or 250V rms @ 50Hz
decreasing to 5V rms @ > 70 kHz; DC
Coupling: 300V DC

Triggering

Apollo10 / 100: Level adjustable, +ve or -ve edge;
L.E.D's indicate when triggered

Attenuator

Apollo10 / 100: x1, x10 switchable

Frequency A

Gate Times Apollo10 / 100: 0.01 sec, 0.1 sec, 1 sec, 10 sec
Ranges / Resolution Apollo100: Multiplier 14Hz - 10kHz (0.01 / Gate Time)
Hz \ddagger Multiplier 6Hz - 100kHz (0.1 / Gate Time) Hz \ddagger
Apollo10/100: DC - 10MHz (1 / Gate Time) Hz
1MHz - 100MHz (10 / Gate

Time) Hz

Apollo10: PSC / 100 (100 / Gate Time) Hz
Apollo100: PSC (100 / Gate Time) Hz

Accuracy

Apollo10/100: $\pm (1 \text{ count} + \text{timebase accuracy})$

External Timebase Oscillator

Calibration Frequency Apollo10/100: 10MHz
Input Frequency Range Apollo10/100: 100kHz nom, min to 10MHz
Input Voltage Range Apollo10/100: 0V to +5V max
Input Load Apollo10/100: 1 HCMOS Input
Output Frequency Apollo10/100: 10MHz
Output Drive Apollo10/100: Sink 5mA, source 5mA

External Reset Input

Apollo10/100: Active low; TTL compatible; Input Voltage range $\pm 20V$ max

Power Requirements

Apollo10/100: Mains only. 100 - 120V, 220 - 240V AC
50 - 50Hz; 24VA

Displays

Apollo10/100:

8 Digit 7-segment 0.5" bright L.E.D's; auto. decimal point; leading zero suppression. Unit indicators for MHz, kHz, m sec, μ sec, KRPM, overflow ind., gate inds.

General Environmental

Size: 219 x 240 x 98mm (product only)

Weight: 2.2kg (product only)

Supplied Accessories: Mains Lead, Instruction Manual, Spare Fuse