

计测系统

MS-500 系列



本系统适用于模拟信号的前期处理。
JIS 标准的机架中，最多可收容 16 个通道。

计测系统

MS-500 系列 主控机箱



MS-523

The MS-521/523/525 is the mainframe unit with built-in power supply used to house the MS-500 series plug-in units.

Specifications

Model	MS-521	MS-523 ^{*2}	MS-525
No. of amplifier and filter units	Maximum of 4 channels	Maximum of 8 channels	Maximum of 16 channels
Power supply	AC100 (120, 200, 220 or 240V is available.)	DC11 to 15V, or AC100V	AC100, 120, 200, 220, 240V
Control or GPIB unit	Not applicable	Applicable by P-42A	Applicable by P-42A
Dimensions	119.5(W) x 199(H) x 400(D)	283.5(W) x 199(H) x 450(D)	480(W) x 199(H) x 400(D)
Weight ^{*1}	5.0kg	6.1kg	12.2kg

^{*1} Weight of mainframe only

*2 Can combine P-85, P-86 or P-87 up to max. 7 units.

Max. 6 units in conjunction with P-42A



■24dB/oct Filter · 48dB/oct Filter P-81 / P-82 / P-83 / P-84 / P-85■

Features



P-81 P-82 P-83 P-84

- Four modes :
Lowpass (Maximum Flatness and Phase-Linear),
Highpass and THRU
- 16 selectable points for highresolution control of
cutoff frequency
- Cascade mode enables simple cascade
connection to neighboring units
- Input ground line is floatable, enabling the
elimination of induced noise caused by ground
loops

Model	Cut-off frequency range	Rolloff
P-81	0.1Hz to 1.6kHz	24dB/oct
P-82	1Hz to 16kHz	
P-83	0.1Hz to 1.6kHz	48dB/oct
P-84	1Hz to 16kHz	

Specifications

Mode	Lowpass (MF, PL), Highpass and THRU
No. of amplifier and filter units	Maximum of 4 channels
Cutoff frequency setting	1, 2,.....15, 16 (16 points), plus multipliers
Input method	CASCADE (The output of left-side unit is connected.),

	FLOAT, GND (single-ended input)
Input impedance	100k ohm // 40pF
CMRR	60dB or greater (DC to 1kHz)
Output voltage	±10V
Phase matching between the same type units	P-81 : ±1° typ., P-82 : ±1.2° typ., P-83 : ±1° typ., P-84 : ±2.2° typ. (LP, DC to 2fc, purchased together)

48dB/oct Filter
P-85



P-85

Features

- Wide cutoff frequency range :0.1Hz to 119.9kHz
- High resolution : 3-digits
- Four filter modes

Specifications

ModelCutting frequency range	0.1 to 119.9kHz
P-81Rolloff	48dB/oct
P-82Modes	Lowpass (ML, PL), Highpass and THRU
P-83Cutting frequency setting	0.1, 0.2, 0.3, ...119.9 (1199 points) plus multipliers
P-84Input method	CASCADE (The output of left-side unit is connected.), FLOAT, GND (single-ended input)
Input impedance	100k ohm // 40pF
CMRR	60dB or greater (DC to 1kHz)
Output voltage	±10V
Phase matching between the same type units	±5.5°typ. (LP, DC to fc, purchased together)

135dB/oct Filter P-86 / P-87



P-86

P-87

Features

- Sharp rolloff equivalent to 135dB/oct
- The combination of P-86 and P-87 configures a bandpass filter

Specifications

Cutting frequency range	P-86 : 1Hz to 119kHz, P-87 : 1Hz to 20kHz
Rolloff	Equivalent to 135dB/oct (8-pole Elliptic)
Modes	P-86 : Lowpass, P-87 : Highpass
Cutting frequency setting	1, 2, 3,...119 (119 points) plus multipliers
Input method	CASCADE (The output of left-side unit is connected.), FLOAT, GND (single-ended input)
Input impedance	100k ohm // 40pF
CMRR	60dB or greater (DC to 1kHz)
Output voltage	±10V
Phase matching between the same type units	±5.5°typ. (LP, DC to fc, purchased together)

■ Differential Amplifier P-61 ■



P-61

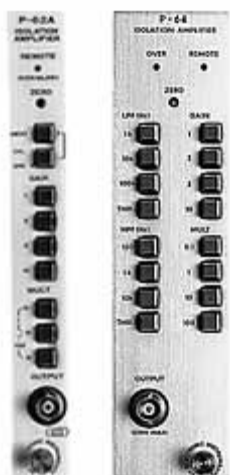
Features

- Wide bandwidth
- High gain
- High CMRR

Specifications

Input type	Balanced differential input
Input impedance	100M ohm
Gain	1 to 1000, 1-2-5 steps
Gain accuracy	±0.2% at 400Hz (no load, 25°C)
Non-linearity	±0.02% or better (DC, no load)
CMRR	120dB or greater (at DC to 120Hz)
DC offset	±2μV / °C (input-referred value)
Frequency response	±0.1dB (at DC to 10kHz) +0.5 to -3dB (at DC to 100kHz)

■ Isolation Amplifier P-62A / P-64 ■



P-62A

P-64

Features

- High withstanding voltage
- Wide bandwidth enabling excellent waveform transfer characteristics

Specifications

Model	P-62A	P-64A
Isolation voltage	$\pm 1000\text{V DC}$ continuous, $\pm 1500\text{Vrms}$ (1 minute, 48 to 62Hz)	$\pm 1000\text{V DC}$ continuous, $\pm 2000\text{Vrms}$ (1 minute, 48 to 62Hz)
IMRR	150dB or more (DC to 60Hz)	
Gain	0.1 to 1000, 1-2-5 sequence	
Input type	Single-ended	
Input impedance	1M ohm // 50pF	1M ohm // 60pF
Frequency response	DC to 100kHz (-3dB)	DC to 1MHz (+1dB, -3dB)
Filter	---	Lowpass : 100kHz, 1kHz, 10kHz Highpass : 10kHz, 1kHz, 100kHz
Output voltage	$\pm 10\text{V}$	



P-42A

Features

- A maximum of 16 channels may be controlled by using this units
- Built-in multiplexer

Specifications

GPIB function	SH1, AH1, T6, L4, SR1, RL2, PP0, DC1, DT1, C0
Other function	Multiplexer output, Status monitor

* This unit is not usable with the MS-521.