

Programmable Controllers

MICREX-SX series

Standard I/O module

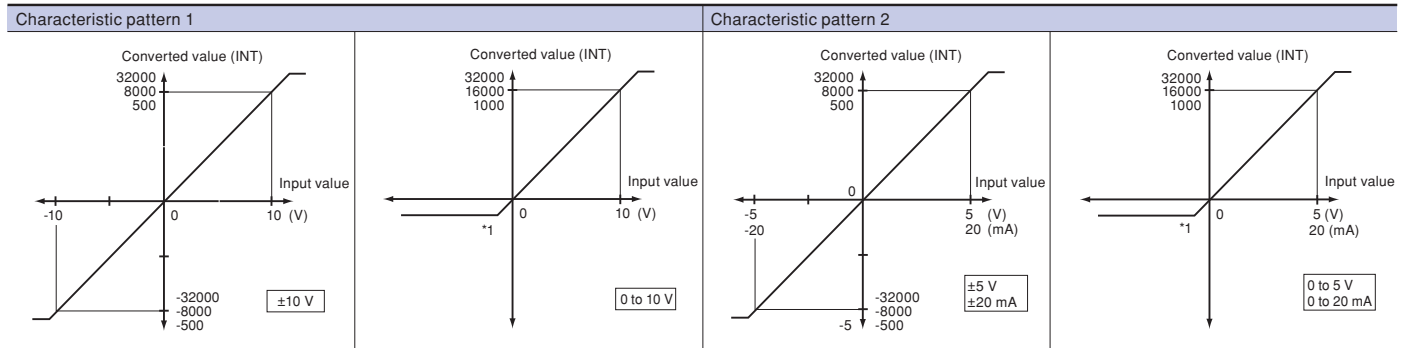
Analog input module: NP1AX□

Performance specifications

Model	Input format	No. of channels	Signal range	Digital converted value	Digital resolution	Tolerance	Converting speed	No. of occupied words (input + output)	Insulation between channels	External connections	Internal current consumption (24 V DC)	Weight	
NP1AX04-MR	Multi-range input	4 ch	-5 to +5 V DC 0 to 20 mA DC 4 to 20 mA DC -20 to +20 mA DC	-500 to +500	10 bits	±0.5% or less (at 25°C) ±1.0% or less (at 0 to 55°C)	4 ms/ 4 ch	8 words + 2 words	Non-insulation	Terminal block	120 mA or less	Approx. 200 g	
NP1AXH4-MR				-8000 to +8000 or 0 to 16000	14 bits	±0.1% or less (at 25°C) ±1.0% or less (at 0 to 50°C)	1 ms/ 4 ch						
NP1AX08V-MR		8 ch	0 to 5 V DC 0 to 10 V DC 1 to 5 V DC -5 to +5 V DC -10 to +10 V DC	-500 to +500 or 0 to 1000	10 bits	±0.5% or less (at 18 to 28°C) ±1.0% or less (at 0 to 55°C)	5 ms/ 8 ch	16 words + 2 words					
NP1AX08I-MR				0 to 5 V DC 0 to 20 mA DC 4 to 20 mA DC -20 to +20 mA DC	14 bits	±0.1% or less (at 18 to 28°C) ±0.2% or less (at 0 to 55°C) ±0.3% (at 0 to 55°C, 1 to 5 V range)	2.5 ms or less/ 8 ch						
NP1AXH8V-MR				0 to 5 V DC 0 to 10 V DC 1 to 5 V DC -10 to +10 V DC									
NP1AXH8I-MR				0 to 20 mA DC 4 to 20 mA DC -20 to +20 mA DC	0 to 16000	±0.1% or less (at 18 to 28°C) ±0.4% or less (at 0 to 55°C)							
NP1AXH8VG-MR			0 to 5 V DC 0 to 10 V DC 1 to 5 V DC -10 to +10 V DC	-32000 to +32000 or 0 to 32000	16 bits	±0.05% or less (at 18 to 28°C) *1	30 ms or less/ 8 ch		Insulation		150mA or less	Approx. 280 g	
NP1AXH8IG-MR				0 to 20 mA DC 4 to 20 mA DC -20 to +20 mA DC		±0.239% or less (at 10 to 55°C)							

*1 Take 40 minutes or more for warm-up (no need to warm-up for ±0.2%)

Characteristic diagram



*1 For NP1AX04-MR and NP1AXH4-MR, the lower limit value (digital value) is "0".

Input value and converted value

Input range	Characteristic pattern 1			Characteristic pattern 2			Characteristic pattern 3		
	Resolution			Resolution			Resolution		
	10 bits	14 bits	16 bits	10 bits	14 bits	16 bits	10 bits	14 bits	16 bits
-5 to 5 V				±500	±8000				
0 to 5 V				1000	16000	32000			
1 to 5 V							1000	16000	32000
0 to 10 V	1000	16000	32000						
-10 to 10 V	±500	±8000	±32000						
0 to 20 mA				1000	16000	32000			
4 to 20 mA							1000	16000	32000
-20 to 20 mA				±500	±8000	±32000			