



Multifunction Process Calibrators

Selection Guide

Models	Additel 209 Loop Calibrator	Additel 210 Loop Calibrator	Additel 220 Multifunction Loop Calibrator	Additel 221A Multifunction Temperature Calibrator	Additel 222A Multifunction Process Calibrator	Additel 223A Documenting Process Calibrator
Measure						
Voltage(mV)			±300 mV	±75 mV	±75 mV	±75 mV
Voltage(V)	0 to 30 V	0 to 30 V	±60 V	±30 V	±30 V	±30 V
Current (mA)	0 to 24 mA	0 to 24 mA	±30 mA	±30 mA	±30 mA	±30 mA
Resistance(ohm)			0 to 2,000 Ω	0 to 4,000 Ω	0 to 4,000 Ω	0 to 4,000 Ω
Frequency(Hz)				1 to 50,000 Hz	1 to 50,000 Hz	1 to 50,000 Hz
Pulse				0 to 999,999	0 to 999,999	0 to 999,999
Limit Switch			3 to 24V	3 to 24V	3 to 24V	3 to 24V
Pressure					● ^[1]	● ^[1]
Source / Simulate						
Voltage(mV)			-10 to 200 mV	-10 to 75 mV	-10 to 75 mV	-10 to 75 mV
Voltage(V)			0 to 12 V	0 to 12 V	0 to 12 V	0 to 12 V
Current (mA)	0 to 24 mA	0 to 24 mA	0 to 22 mA	0 to 22 mA	0 to 22 mA	0 to 22 mA
Resistance(ohm)				1 to 4,000 Ω	1 to 4,000 Ω	1 to 4,000 Ω
Frequency(Hz)				0 to 50,000 Hz	0 to 50,000 Hz	0 to 50,000 Hz
Pulse				0 to 999,999	0 to 999,999	0 to 999,999
DC 24 V	●	●	●	●	●	●
Record						
Scaling			●	●	●	●
Min/Max/Avg/Tare			●			
Hold			●			
As found/ As left			●	●	●	●
On-demand logging			●	●	●	●
Upload data to PC				●	●	●
Features						
24V loop supply			●	●	●	●
Ramp/ Step			●	●	●	●
Simulate Transmitter				●	●	●
RTD				11 types ^[2]	11 types ^[2]	11 types ^[2]
Thermocouple				13 types ^[3]	13 types ^[3]	13 types ^[3]
HART communication			● ^[4]			●
Documenting				●	●	●
Warranty	3 years	3 years	3 years	3 years	3 years	3 years
NIST traceable calibration	●	●	●	●	●	●

[1] Additel 160A External Pressure Module required

[2] RTD Includes Pt10(385), Pt100(385), Pt100(3916), Pt100(3926), Pt500(385), Pt1000(385), Cu10(427), Cu50(428), Cu100(428), Ni100(617), Ni120(672), Ni1000 and customized

[3] Thermocouple Includes S, R, B, K, N, E, J, T, C, D, G, L, U

[4] Built-in 250Ω resistor for HART communications.