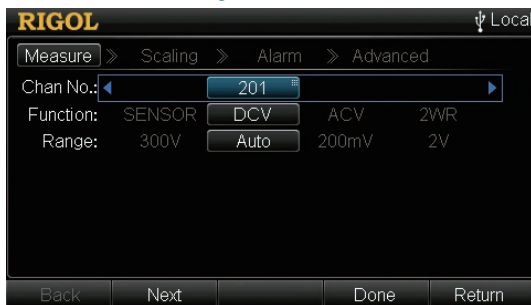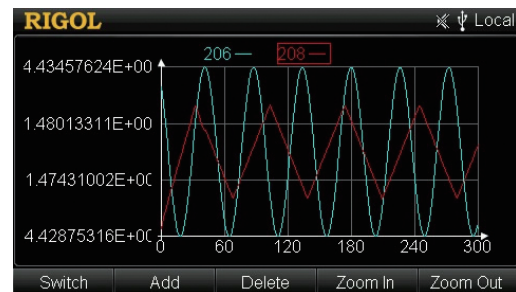# Data Acquisition/ Switch System

M300 Series Data Acquisition/Switch System with modular structure, which combines precision measurement capability with flexible signal connections, can provide versatile solutions for the applications with multiple points or signals to be tested in product performance test during R&D phase as well as automatic test during production process.

- 4.3' TFT LCD, easy for operation
- 6½ digit DMM can be inserted into any slot. supporting multiple measurement functions, including DCV,DCI, ACV, ACI, 2WR, 4WR, PERIOD, FREQ, TEMP and any sensor
- Up to 320 switch channels per mainframe, save on cost of ownership
- 8 kinds of Modules supported
- Full Interfaces supported: USB Device, USB Host, GPIB, LAN(LXI-C), RS232
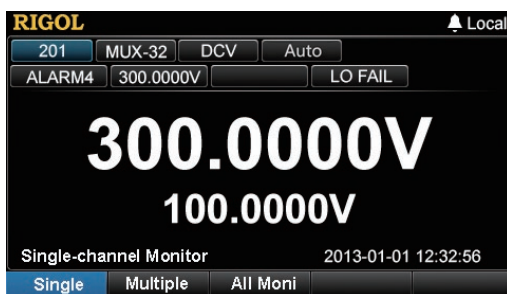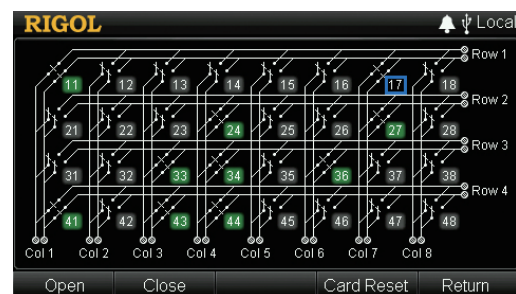- Powerful PC software

Measurement Configuration

Draw real–time scan data curves
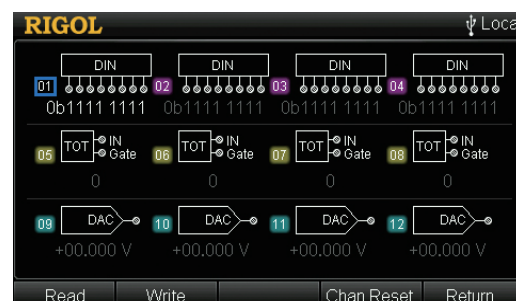
Single Channel Monitor

MC3648 Control Interface

Display real–time scan information and all the measurement data

MC3534 Control Interface

Key Specifications

Module	Terminal Box	Channels				Description
		20	24	32	64	
MC3065	-					DMM module, 6½ digits, support functions: DCV, ACV, DCI, ACI, 2WR, 4WR, FREQ, PERIOD, TEMP and any sensor
MC3120	TB20	●				20-channel HI/LO (differential) input, Support 4-wire measurement
MC3132	TB32			●		32-channel HI/LO (differential) input, Support 4-wire measurement
MC3164	TB64				●	64-channel (single-ended), switch HI input only
MC3324	TB24		●			Mix multiplexer with 20 voltage channels and 4 current channels
MC3416	TB16					16-channel actuator that can connect signal to the device under test or enable external device
MC3534	TB34					Multifunction module. ·DIO: four 8-bit digital input/output ports ·TOT: four totalizer input terminals ·DAC: four analog output terminals
MC3648	TB48					4×8 two-wire matrix switch

Ordering Information

	Description	Order Number
Mainframe	M300: Data Acquisition/Switch System	M300
	M301: Data Acquisition/Switch System + DMM Module	M301
	M302: Data Acquisition/Switch System + DMM Module+MC3120+M3TB20	M302
Module	DMM Module (6½ digits)	MC3065
	20-channel Multiplexer	MC3120 (Need to be used with M3TB20 together)
	32-channel Multiplexer	MC3132 (Need to be used with M3TB32 together)
	64-channel Single-ended Multiplexer	MC3164 (Need to be used with M3TB64 together)
	20-voltage-channel+4-current-channel Mixed Multiplexer	MC3324 (Need to be used with M3TB24 together)
	16-channel Actuator	MC3416 (Need to be used with M3TB16 together)
	Multifunction Module	MC3534 (Need to be used with M3TB34 together)
	4×8 Matrix Switch	MC3648 (Need to be used with M3TB48 together)
Terminal Box	MC3120 Terminal Box	M3TB20
	MC3324 Terminal Box	M3TB24
	MC3648 Terminal Box	M3TB48
	MC3534 Terminal Box	M3TB34
	MC3416 Terminal Box	M3TB16
	MC3132 Terminal Box	M3TB32
	MC3164 Terminal Box	M3TB64
Standard Accessories	USB Cable	CB-USBA-USBB-FF-150
	Mixed-interface Separator Line	MIX-SEPARATOR
	Power Cord, Quick Guide	-
	Spare Fuses	-
Optional Accessories	RS232 Cable	CB-DB9-DB9-FF-150
	GPIB Reverse Entry for M300	M3GPIB
	External Port for Analog Bus Interface	M3A2B
	Rack Mount Kit	RM-1-M300
	Rack Mount Kit for Two Instruments	RM-2-M300
	M300 Series control and advanced data analysis PC Software	UltraAquire Pro