



Agilent 34980A Multifunction Switch/Measure Unit Command Quick Reference

Version 1.0

Syntax Conventions

- Braces ({ }) enclose the parameter choices for a given command string. The braces are not sent with the command string.
- A vertical bar (|) separates multiple parameter choices for a given command string.
- Triangle brackets (< >) indicate that you must specify a value for the enclosed parameter. The brackets are not sent with the command string. You must specify a value for the parameter (e.g., "VOLT:DC:RANG 10").
- Some parameters are enclosed in square brackets ([]). The square brackets indicate that the parameter is optional and can be omitted. The brackets are not sent with the command string. If you do not specify a value for an optional parameter, the instrument chooses a default value.

Measurement Commands

MEASure:CURRent:AC? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:CURRent[:DC]? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:DIGital[:{BYTE|WORD|LWORD}]? (@<ch_list>)

MEASure:DIGital[:BYTE]:BIT? <bit>, (@<ch_list>)

MEASure:FREQuency? [{<range>|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:FRESistance? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:PERiod? [{<range>|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:RESistance? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure:TEMPerature? {TCouple|RTD|FRD|THERmistor|DEF}, {<type>|DEF} [, 1 [, {<resolution>|MINIMAX|DEF}]]
[, (@<ch_list>)]

MEASure:TOTalize? {READ|IRRESet}, (@<ch_list>)

MEASure[:VOLTage]:AC? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

MEASure[:VOLTage][:DC]? [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]

Temperature Configuration Commands

```
CONFigure:TEMPerature {TCouple|RTD|FRD|THERmistor|DEF}, {<type>|DEF} [,1 [, {<resolution>|MINIMAX|DEF} ] ]  
[, (@<ch_list>)]  
CONFigure? [(@<ch_list>)]
```

```
[SENSe:]TEMPerature:APERture {<seconds>|MINIMAX|DEF} [, (@<ch_list>)]  
[SENSe:]TEMPerature:APERture? [({@<ch_list>|MINIMAX})]
```

```
[SENSe:]TEMPerature:APERture:ENABled? [(@<ch_list>)]
```

```
[SENSe:]TEMPerature:NPLC {<PLCs>|MINIMAX|DEF} [, (@<ch_list>)]  
[SENSe:]TEMPerature:NPLC? [({@<ch_list>|MINIMAX})]
```

```
[SENSe:]TEMPerature:TRANsdncer:TYPE {TCouple|RTD|FRD|THERmistor} [, (@<ch_list>)]  
[SENSe:]TEMPerature:TRANsdncer:TYPE? [(@<ch_list>)]
```

```
[SENSe:]TEMPerature:ZERO:AUTO {OFF|O|ON|1} [, (@<ch_list>)]  
[SENSe:]TEMPerature:ZERO:AUTO? [(@<ch_list>)]
```

```
UNIT:TEMPerature {C|FIK} [, (@<ch_list>)]  
UNIT:TEMPerature? [(@<ch_list>)]
```

Thermocouple Configuration

```
[SENSe:]TEMPerature:RJUNction[:|INTernal]? (@<ch_list>)
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:CHECK {OFF|O|ON|1} [, (@<ch_list>)]  
[SENSe:]TEMPerature:TRANsdncer:TCouple:CHECK? [(@<ch_list>)]
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:IMPedance:AUTO  
[SENSe:]TEMPerature:TRANsdncer:TCouple:IMPedance:AUTO?
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:RJUNction {<temperature>|MINIMAX|DEF} [, (@<ch_list>)]  
[SENSe:]TEMPerature:TRANsdncer:TCouple:RJUNction? [({@<ch_list>|MINIMAX})]
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:RJUNction:EXTernal?
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:RJUNction:TYPE {EXTernal|FIXed|INTernal} [, (@<ch_list>)]  
[SENSe:]TEMPerature:TRANsdncer:TCouple:RJUNction:TYPE? [(@<ch_list>)]
```

```
[SENSe:]TEMPerature:TRANsdncer:TCouple:TYPE {B|E|J|K|N|I|R|S|T} [, (@<ch_list>)]  
[SENSe:]TEMPerature:TRANsdncer:TCouple:TYPE? [(@<ch_list>)]
```

RTD Configuration

```
[SENSe:]TEMPerature:TRANSDUCER:FRTD:OCOMPensated {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:FRTD:OCOMPensated? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:FRTD:REFerence {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:FRTD:REFerence? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:FRTD:RESistance[:REFerence] {<reference>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:FRTD:RESistance[:REFerence]? [({@<ch_list>}|MINIMAX)]

[SENSe:]TEMPerature:TRANSDUCER:FRTD:TYPE {85|91} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:FRTD:TYPE? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:RTD:OCOMPensated {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:RTD:OCOMPensated? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:RTD:REFerence {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:RTD:REFerence? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:RTD:RESistance[:REFerence] {<reference>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:RTD:RESistance[:REFerence]? [({@<ch_list>}|MINIMAX)]

[SENSe:]TEMPerature:TRANSDUCER:RTD:TYPE {85|91} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:RTD:TYPE? [(@<ch_list>)]
```

Thermistor Configuration

```
[SENSe:]TEMPerature:TRANSDUCER:THERMISTOR:REFerence {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:THERMISTOR:REFerence? [(@<ch_list>)]

[SENSe:]TEMPerature:TRANSDUCER:THERMISTOR:TYPE {2252|5000|10000} [, (@<ch_list>)]
[SENSe:]TEMPerature:TRANSDUCER:THERMISTOR:TYPE? [(@<ch_list>)]
```

Voltage Configuration Commands

DC Voltage Configuration

CONFigure[:VOLTage][:DC] [{<range>|AUTO|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]VOLTage[:DC]:APERture {<seconds>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage[:DC]:APERture:ENABLEd? [(@<ch_list>)]

[SENSe:]VOLTage[:DC]:IMPedance:AUTO <mode> [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:IMPedance:AUTO? [(@<ch_list>)]

[SENSe:]VOLTage[:DC]:NPLC {<PLCs>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:NPLC? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage[:DC]:RANGe {<range>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage[:DC]:RANGe:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:RANGe:AUTO? [(@<ch_list>)]

[SENSe:]VOLTage[:DC]:RESolution {<resolution>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:RESolution? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage[:DC]:ZERO:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]VOLTage[:DC]:ZERO:AUTO? [(@<ch_list>)]

AC Voltage Configuration

CONFigure[:VOLTage]:AC [{<range>|AUTO|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]VOLTage:AC:BANDwidth {3|20|200|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage:AC:BANDwidth? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage:AC:RANGe {<range>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]VOLTage:AC:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]VOLTage:AC:RANGe:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]VOLTage:AC:RANGe:AUTO? [(@<ch_list>)]

Resistance Configuration Commands

2-Wire Resistance Configuration

CONFigure:RESistance [{<range>|AUTO|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]RESistance:APERture {<seconds>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]RESistance:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]RESistance:APERture:ENABLEd? [(@<ch_list>)]

[SENSe:]RESistance:NPLC {<PLCs>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]RESistance:NPLC? [(@<ch_list>)|MINIMAX]

[SENSe:]RESistance:OCOMpensated <mode> [, (@<ch_list>)]
[SENSe:]RESistance:OCOMpensated? [(@<ch_list>)]

[SENSe:]RESistance:RANGe {<range>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]RESistance:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]RESistance:RANGe:AUTO {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]RESistance:RANGe:AUTO? [(@<ch_list>)]

[SENSe:]RESistance:RESolution {<resolution>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]RESistance:RESolution? [(@<ch_list>)|MINIMAX]

[SENSe:]RESistance:ZERO:AUTO {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]RESistance:ZERO:AUTO? [(@<ch_list>)]

4-Wire Resistance Configuration

CONFigure:FRESistance [{<range>|AUTO|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]FRESistance:APERture {<seconds>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FRESistance:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]FRESistance:APERture:ENABLEd? [(@<ch_list>)]

[SENSe:]FRESistance:NPLC {<PLCs>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FRESistance:NPLC? [(@<ch_list>)|MINIMAX]

[SENSe:]FRESistance:OCOMpensated <mode> [, (@<ch_list>)]
[SENSe:]FRESistance:OCOMpensated? [(@<ch_list>)]

[SENSe:]FRESistance:RANGe {<range>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FRESistance:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]FRESistance:RANGe:AUTO {OFF|O|ON|1} [, (@<ch_list>)]
[SENSe:]FRESistance:RANGe:AUTO? [(@<ch_list>)]

[SENSe:]FRESistance:RESolution {<resolution>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FRESistance:RESolution? [(@<ch_list>)|MINIMAX]

Current Configuration Commands

DC Current Configuration

CONFigure:CURRent[:DC] [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]CURRent[:DC]:APERture {<seconds>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent[:DC]:APERture:ENABLEd? [(@<ch_list>)]

[SENSe:]CURRent[:DC]:NPLC {<PLCs>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:NPLC? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent[:DC]:RANGe {<range>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent[:DC]:RANGe:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:RANGe:AUTO? [(@<ch_list>)]

[SENSe:]CURRent[:DC]:RESolution {<resolution>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:RESolution? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent[:DC]:ZERO:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]CURRent[:DC]:ZERO:AUTO? [(@<ch_list>)]

AC Current Configuration

CONFigure:CURRent:AC [{<range>|AUTO|MINIMAX|DEF} [, {<resolution>|MINIMAX|DEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]CURRent:AC:Bandwidth {3|20|200|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent:AC:Bandwidth? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent:AC:RANGe {<range>|MINIMAX|DEF} [, (@<ch_list>)]
[SENSe:]CURRent:AC:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]CURRent:AC:RANGe:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]CURRent:AC:RANGe:AUTO? [(@<ch_list>)]

Frequency and Period Configuration Commands

Frequency Configuration

CONFigure:FREQuency [{<range>|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]FREQuency:APERture {<seconds>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FREQuency:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]FREQuency:RANGe:LOWer {<timeout>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FREQuency:RANGe:LOWer? [(@<ch_list>)|MINIMAX]

[SENSe:]FREQuency:VOLTagE:RANGe {<voltage_range>|AUTO|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]FREQuency:VOLTagE:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]FREQuency:VOLTagE:RANGe:AUTO {OFF|0|ON|1} [, (@<ch_list>)]
[SENSe:]FREQuency:VOLTagE:RANGe:AUTO? [(@<ch_list>)]

Period Configuration

CONFigure:PERiod [{<range>|MINIMAXIDEF} [, {<resolution>|MINIMAXIDEF}] ,] [(@<ch_list>)]
CONFigure? [(@<ch_list>)]

[SENSe:]PERiod:APERture {<seconds>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]PERiod:APERture? [(@<ch_list>)|MINIMAX]

[SENSe:]PERiod:VOLTagE:RANGe {<voltage_range>|MINIMAXIDEF} [, (@<ch_list>)]
[SENSe:]PERiod:VOLTagE:RANGe? [(@<ch_list>)|MINIMAX]

[SENSe:]PERiod:VOLTagE:RANGe:AUTO <mode> [, (@<ch_list>)]
[SENSe:]PERiod:VOLTagE:RANGe:AUTO? [(@<ch_list>)]

Digital I/O and Totalizer Configuration Commands

Digital I/O Configuration

CONFigure:DIgital:STATe {INPut|OUTPut}, (@<ch_list>)
CONFigure:DIgital:STATe? (@<ch_list>)

CONFigure:DIgital:WIDTh {BYTE|WORD|LWORD}, (@<ch_list>)
CONFigure:DIgital:WIDTh? (@<ch_list>)

[SENSe:]DIgital:DATA[:{BYTE|WORD|LWORD}]? (@<ch_list>)

[SENSe:]DIgital:DATA[:BYTE]:BIT? <bit>, (@<ch_list>)

SOURce:DIgital:DATA[:BYTE|WORD|LWORD] <data>, (@<ch_list>)
SOURce:DIgital:DATA[:BYTE|WORD|LWORD]? (@<ch_list>)

SOURce:DIgital:DATA[:BYTE]:BIT <bit>, <0|1>, (@<ch_list>)
SOURce:DIgital:DATA[:BYTE]:BIT? <bit>, (@<ch_list>)

SOURce:DIgital:STATe {INPut|O|OUTPut|1}, (@<ch_list>)
SOURce:DIgital:STATe? (@<ch_list>)

Totalizer Configuration

CONFigure:TOTalize {READIRRESet}, (@<ch_list>)

[SENSe:]TOTalize:CLEar:IMMediate (@<ch_list>)

[SENSe:]TOTalize:DATA? (@<ch_list>)

[SENSe:]TOTalize:SLOPe {NEGative|POSitive}, (@<ch_list>)
[SENSe:]TOTalize:SLOPe? (@<ch_list>)

[SENSe:]TOTalize:THReshold[:MODE] {ACITTL}, (@<ch_list>)
[SENSe:]TOTalize:THReshold[:MODE]? (@<ch_list>)

[SENSe:]TOTalize:TYPE {READIRRESet}, (@<ch_list>)
[SENSe:]TOTalize:TYPE? (@<ch_list>)

DAC Configuration Commands

OUTPut[:STATe] {OFF|O|ON|1}, (@<ch_list>)
OUTPut[:STATe]? (@<ch_list>)

SOURce:CURRent[:LEVel] {<current>|MINIMAX|DEF}, (@<ch_list>)
SOURce:CURRent[:LEVel]? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:TRIGger:SOURce {IMMediate|MANual|EXTernal}, (@<ch_list>)
SOURce:FUNcTion:TRIGger:SOURce? (@<ch_list>)

SOURce:MODE {VOLTage|CURRent}, (@<ch_list>)
SOURce:MODE? (@<ch_list>)

SOURce:MODule:CLOCK:FREQuency {<frequency>|MINIMAX}, {1|2|3|4|5|6|7|8}
SOURce:MODule:CLOCK:FREQuency? [{MINIMAX},] {1|2|3|4|5|6|7|8}

SOURce:MODule:CLOCK:STATe {OFF|O|ON|1}, {1|2|3|4|5|6|7|8}
SOURce:MODule:CLOCK:STATe? {1|2|3|4|5|6|7|8}

SOURce:MODule:TRIGger:EXTernal:IMMediate {1|2|3|4|5|6|7|8}

SOURce:MODule:TRIGger:OUTPut {OFF|O|ON|1}, {1|2|3|4|5|6|7|8}
SOURce:MODule:TRIGger:OUTPut? {1|2|3|4|5|6|7|8}

SOURce:VOLTage[:LEVel] {<voltage>|MINIMAX|DEF}, (@<ch_list>)
SOURce:VOLTage[:LEVel]? [{MINIMAX},] (@<ch_list>)

Trace Waveform Configuration

SOURce:FUNcTion:CLOCK:EXTernal:DIVisor {<value>|MINIMAX|DEF}, (@<ch_list>)
SOURce:FUNcTion:CLOCK:EXTernal:DIVisor? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:CLOCK:SOURce <source>, (@<ch_list>)
SOURce:FUNcTion:CLOCK:SOURce? (@<ch_list>)

SOURce:FUNcTion:CURRent:GAIN {<gain>|MINIMAX|DEF}, (@<ch_list>)
SOURce:FUNcTion:CURRent:GAIN? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:CURRent:OFFSet {<offset>|MINIMAX|DEF}, (@<ch_list>)
SOURce:FUNcTion:CURRent:OFFSet? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:ENABle {OFF|O|ON|1}, (@<ch_list>)
SOURce:FUNcTion:ENABle? (@<ch_list>)

SOURce:FUNcTion:FREQuency {<frequency>|MINIMAX|DEF}, (@<ch_list>)
SOURce:FUNcTion:FREQuency? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:HALT (@<ch_list>)

SOURce:FUNcTion:SAMPle:PERiod {<period>|MINIMAX|DEF}, (@<ch_list>)
SOURce:FUNcTion:SAMPle:PERiod? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:TRACe:NCYCles {<count>|MINIMAX|DEF|INFinity}, (@<ch_list>)
SOURce:FUNcTion:TRACe:NCYCles? [{MINIMAX},] (@<ch_list>)

SOURce:FUNcTion:TRACe:SINDex <point>, (@<ch_list>)
SOURce:FUNcTion:TRACe:SINDex? (@<ch_list>)

SOURce:FUNcTion:TRACe[:NAME] <name>, (@<ch_list>)
 SOURce:FUNcTion:TRACe[:NAME]? (@<ch_list>)

 SOURce:FUNcTion:TRIGger:IMMediate (@<ch_list>)

 SOURce:FUNcTion:VOLTagE:GAIN {<gain>|MINIMAXIDeF}, (@<ch_list>)
 SOURce:FUNcTion:VOLTagE:GAIN? [{MINIMAX},] (@<ch_list>)

 SOURce:FUNcTion:VOLTagE:OFFSet {<offset>|MINIMAXIDeF}, (@<ch_list>)
 SOURce:FUNcTion:VOLTagE:OFFSet? [{MINIMAX},] (@<ch_list>)

 TRACe:CATalog? {1|2|3|4|5|6|7|8}

 TRACe:DELeTe:ALL {1|2|3|4|5|6|7|8}

 TRACe:DELeTe[:NAME] {1|2|3|4|5|6|7|8}, <name>

 TRACe:FRee? {1|2|3|4|5|6|7|8}

 TRACe:POINts? {1|2|3|4|5|6|7|8}, <name>

 TRACe[:DATA] {1|2|3|4|5|6|7|8}, <name>, {<binary_block>|<value>, <value> [,<value>, ...]}
 TRACe[:DATA]:DAC {1|2|3|4|5|6|7|8}, <name>, {<binary_block>|<value>, <value> [,<value>, ...]}

 TRACe[:DATA]:FUNcTion {1|2|3|4|5|6|7|8}, <type>, <name>, <points>

Monitor Commands

ROUTe:MONitor:DATA?

 ROUTe:MONitor:MODE {CHANnelIDMM}
 ROUTe:MONitor:MODE?

 ROUTe:MONitor:STATe {OFFIOION1}
 ROUTe:MONitor:STATe?

 ROUTe:MONitor[:CHANnel] (@<channel>)
 ROUTe:MONitor[:CHANnel]?

 ROUTe:MONitor[:CHANnel]:ENABle {OFFIOION1}, (@<ch_list>)
 ROUTe:MONitor[:CHANnel]:ENABle? (@<ch_list>)

Scan Configuration Commands

ABORt

INITiate

FORMat:BORDer {NORMal|SWAPped}

FORMat:BORDer?

FORMat:READIng:ALARm {OFF|O|ON|1}

FORMat:READIng:ALARm?

FORMat:READIng:CHANnel {OFF|O|ON|1}

FORMat:READIng:CHANnel?

FORMat:READIng:TIME {OFF|O|ON|1}

FORMat:READIng:TIME?

FORMat:READIng:TIME:TYPE {ABSolutelRELative}

FORMat:READIng:TIME:TYPE?

FORMat:READIng:UNIT {OFF|O|ON|1}

FORMat:READIng:UNIT?

READ? [(@<ch_list>)]

ROUTE:CHANnel:DELay {<seconds>|MINIMAXIDEF}, (@<ch_list>)

ROUTE:CHANnel:DELay? [{MINIMAXIDEF},] (@<ch_list>)

ROUTE:CHANnel:DELay:AUTO {OFF|O|ON|1}, (@<ch_list>)

ROUTE:CHANnel:DELay:AUTO? (@<ch_list>)

ROUTE:SCAN (@<scan_list>)

ROUTE:SCAN?

ROUTE:SCAN:ADD (@<ch_list>)

ROUTE:SCAN:REMOve (@<ch_list>)

ROUTE:SCAN:ORDERed {OFF|O|ON|1}

ROUTE:SCAN:ORDERed?

ROUTE:SCAN:SIZE?

SAMPle:COUNt {<count>|MINIMAXIDEF}

SAMPle:COUNt? [{MINIMAX}]

SWEep:COUNt {<count>|MINIMAXIDEF}

SWEep:COUNt? [{MINIMAX}]

TRIGger:COUNt {<count>|MINIMAXIDEF|INfInity}

TRIGger:COUNt? [{MINIMAX}]

TRIGger:SOURce {IMMediate|BUSIEXternal|TIMER}

TRIGger:SOURce?

TRIGger:TIMer {<seconds>|MINIMAXIDEF}

TRIGger:TIMer? [{MINIMAX}]

Switch Control Commands

ROUTE:CHANnel:LABel:CLEar:MODUle {1-8|SLOT1-SLOT8|ALL}

ROUTE:CHANnel:LABel[:DEFine] "<label>" , (@<ch_list>)
ROUTE:CHANnel:LABel[:DEFine]? [<type>,] (@<ch_list>)

ROUTE:CLOSe (@<ch_list>)
ROUTE:CLOSe? (@<ch_list>)

ROUTE:CLOSe:EXCLusive (@<ch_list>)

ROUTE:MODUle:BUSY? {1-8|SLOT1-SLOT8|ANY}

ROUTE:MODUle:WAIT {1-8|SLOT1-SLOT8|ANY}
ROUTE:MODUle:WAIT? {1-8|SLOT1-SLOT8|ANY}

ROUTE:OPEN (@<ch_list>)
ROUTE:OPEN? (@<ch_list>)

ROUTE:OPEN:ABUS [{<abus>|ALL}]

ROUTE:OPEN:ALL [{1-8|SLOT1-SLOT8|ALL}]

ROUTE:OPERation:OVERlap[:ENABLE] {OFF|ON|1}
ROUTE:OPERation:OVERlap[:ENABLE]?

SYSTEM:CPON {1|2|3|4|5|6|7|8}

SYSTEM:CTYPe? {1|2|3|4|5|6|7|8}

SYSTEM:MODUle:PFAil:JUMPer:AMP5? {1|2|3|4|5|6|7|8} (34937A/938A only)

SYSTEM:MODUle:TEMPerature? [{TRANsducer|TTHReshold}], {1|2|3|4|5|6|7|8} (34937A/938A only)

SYSTEM:MODUle:WIRE:MODE {WIRE1|WIRE2}, {1|2|3|4|5|6|7|8} (34923A/925A/933A only)

Triggering Commands

*TRG

INITiate

READ? [(@<ch_list>)]

TRIGger:COUNt {<count>|MINIMAX|DEFININFINITY}
TRIGger:COUNt? [{MINIMAX}]

TRIGger:DELay {<seconds>|MINIMAX}
TRIGger:DELay? [{MINIMAX}]

TRIGger:DELay:AUTO {OFF|ON|1}
TRIGger:DELay:AUTO?

TRIGger:SOURce {IMMediate|BUSIEXtErnal|TIMER}
TRIGger:SOURce?

TRIGger:TIMer {<seconds>|MINIMAX|DEF}
TRIGger:TIMer? [{MINIMAX}]

Measurement Statistics Commands

CALCulate:AVERage:AVERage? [(@<ch_list>)]
CALCulate:AVERage:CLEar [(@<ch_list>)]
CALCulate:AVERage:COUNt? [(@<ch_list>)]
CALCulate:AVERage:MAXimum? [(@<ch_list>)]
CALCulate:AVERage:MAXimum:TIME? [(@<ch_list>)]
CALCulate:AVERage:MINimum? [(@<ch_list>)]
CALCulate:AVERage:MINimum:TIME? [(@<ch_list>)]
CALCulate:AVERage:PTPeak? [(@<ch_list>)]
DATA:LAST? [,@<channel>]

Reading Memory Commands

DATA:POINts:EVENT:THReshold <num_readings>
DATA:POINts:EVENT:THReshold?

DATA:POINts?

DATA:REMOve? <num_readings>

FETCh?

R? [<max_count>]

SYSTem:TIME:SCAN?

Mx+B Scaling Commands

CALCulate:SCALE:GAIN <gain> [, (@<ch_list>)]
CALCulate:SCALE:GAIN? (@<ch_list>)

CALCulate:SCALE:OFFSet <offset> [, (@<ch_list>)]
CALCulate:SCALE:OFFSet? (@<ch_list>)

CALCulate:SCALE:STATe {OFF|O|ION|1} [, (@<ch_list>)]
CALCulate:SCALE:STATe? [(@<ch_list>)]

CALCulate:SCALE:UNIT "<units>" [, (@<ch_list>)]
CALCulate:SCALE:UNIT? [(@<ch_list>)]

Calibration Commands

CALibration?
CALibration:ABORt
CALibration:BEgin[:VOLTagE] [<setup_#>,] (@<channel>)
CALibration:COUnT? [{1-8|SLOT1-SLOT8|MAINframe|DMM}]
CALibration:LFRequency {50|60|400}
CALibration:LFRequency?
CALibration:MODUle? [{1-8|SLOT1-SLOT8|ALL}]
CALibration:POINt? <value>
CALibration:SECure:CODE <new_code>
CALibration:SECure:STATe {OFF|O|ON|1}, <code>
CALibration:SECure:STATe?
CALibration:STRing "<string>" [{1-8|SLOT1-SLOT8|MAINframe|DMM}]
CALibration:STRing? [{1-8|SLOT1-SLOT8|MAINframe|DMM}]
CALibration:VALue <value>
CALibration:VALue?

State Storage Commands

*RCL {1|2|3|4|5}
*SAV {1|2|3|4|5}
MEMory:NSTates?
MEMory:STATe:CATalog?
MEMory:STATe:DELeTe {1|2|3|4|5}
MEMory:STATe:DELeTe:ALL
MEMory:STATe:NAME {1|2|3|4|5} [,<name>]
MEMory:STATe:NAME? {1|2|3|4|5}
MEMory:STATe:RECall:AUTO {OFF|O|ON|1}
MEMory:STATe:RECall:AUTO?
MEMory:STATe:RECall:SELeCt {1|2|3|4|5}
MEMory:STATe:RECall:SELeCt?
MEMory:STATe:VALid? {1|2|3|4|5}

IEEE-488 Commands

*CLS
*ESE <enable_value>
*ESE?
*ESR?
*IDN?
*OPC
*OPC?
*RCL {1|2|3|4|5}
*RST
*SAV {1|2|3|4|5}
*SRE <enable_value>
*SRE?
*STB?
*TRG
*TST?
*WAI

System-Related Commands

*IDN?
*RST
*TST?
CALibration:LFRequency {50|60|400}
CALibration:LFRequency?
DISPlay[:STATe] {OFF|O|ON|1}
DISPlay[:STATe]?
DISPlay:TEXT "<string>"
DISPlay:TEXT?
DISPlay:TEXT:CLEAr
SYSTem:ABUS:INTerlock:SIMulate {OFF|O|ON|1}
SYSTem:ABUS:INTerlock:SIMulate?
SYSTem:BEEPer
SYSTem:CDEscription? {1|2|3|4|5|6|7|8}
SYSTem:CPON {1|2|3|4|5|6|7|8}
SYSTem:CTYPe? {1|2|3|4|5|6|7|8}
SYSTem:DATE <yyyy>,<mm>,<dd>
SYSTem:DATE?

SYSTem:ERRor?
SYSTem:PRESet
SYSTem:SECurity:IMMediate
SYSTem:TIME <hh>,<mm>,<ss.sss>
SYSTem:TIME?
SYSTem:TIME:SCAN?
SYSTem:VERSion?

Remote Interface Configuration Commands

SYSTem:COMMunicate:ENABle {OFFIOION1}, {GPIBUSILANISOCKets|TELNet|VXI11|WEB}
SYSTem:COMMunicate:ENABle? {GPIBUSILANISOCKets|TELNet|VXI11|WEB}

SYSTem:COMMunicate:GPIB:ADDRes <address>
SYSTem:COMMunicate:GPIB:ADDRes?

SYSTem:LOCK:OWNer?

SYSTem:LOCK:RELEase

SYSTem:LOCK:REQuEst?

LAN Configuration Commands

SYSTem:COMMunicate:LAN:AUTOip {OFFIOION1}
SYSTem:COMMunicate:LAN:AUTOip?

SYSTem:COMMunicate:LAN:BSTatus?

SYSTem:COMMunicate:LAN:CONTRol?

SYSTem:COMMunicate:LAN:DHCP {OFFIOION1}
SYSTem:COMMunicate:LAN:DHCP?

SYSTem:COMMunicate:LAN:DNS <address>
SYSTem:COMMunicate:LAN:DNS?

SYSTem:COMMunicate:LAN:DOMain "<name>"
SYSTem:COMMunicate:LAN:DOMain? [{CURRENT|STATIC}]

SYSTem:COMMunicate:LAN:GATEway <address>
SYSTem:COMMunicate:LAN:GATEway? [{CURRENT|STATIC}]

SYSTem:COMMunicate:LAN:HISTory:CLEar

SYSTem:COMMunicate:LAN:HISTory?

SYSTem:COMMunicate:LAN:HOSTname "<name>"
SYSTem:COMMunicate:LAN:HOSTname? [{CURRENT|STATIC}]

SYSTem:COMMunicate:LAN:IPADdress <address>
SYSTem:COMMunicate:LAN:IPADdress? [{CURRENT|STATIC}]

SYSTem:COMMunicate:LAN:KEEPalive {<seconds>|MINIMAX}
SYSTem:COMMunicate:LAN:KEEPalive? [{MINIMAX}]

SYSTem:COMMunicate:LAN:MAC?
SYSTem:COMMunicate:LAN:SMASK <mask>
SYSTem:COMMunicate:LAN:SMASK? [{CURRent!STATic}]
SYSTem:COMMunicate:LAN:TELNet:PROMpt "<string>"
SYSTem:COMMunicate:LAN:TELNet:PROMpt?
SYSTem:COMMunicate:LAN:TELNet:WMESsage "<string>"
SYSTem:COMMunicate:LAN:TELNet:WMESsage?

Status System Commands

*CLS
*ESE <enable_value>
*ESE?
*ESR?
*SRE <enable_value>
*SRE?
*STB?
STATus:ALARm:CONDition?
STATus:ALARm:ENABle <enable_value>
STATus:ALARm:ENABle?
STATus:ALARm[:EVENT]?
STATus:MODule:ENABle <enable_value>
STATus:MODule:ENABle?
STATus:MODule:EVENT?
STATus:MODule:SLOT[*n*]:CONDition?
STATus:MODule:SLOT[*n*]:ENABle <enable_value>
STATus:MODule:SLOT[*n*]:ENABle?
STATus:MODule:SLOT[*n*][:EVENT]?
STATus:OPERation:CONDition?
STATus:OPERation:ENABle <enable_value>
STATus:OPERation:ENABle?
STATus:OPERation[:EVENT]?
STATus:PRESet
STATus:QUESTionable:CONDition?
STATus:QUESTionable:ENABle <enable_value>
STATus:QUESTionable:ENABle?
STATus:QUESTionable[:EVENT]?
SYSTem:MODule?

Service-Related Commands

DIAGnostic:DMM:CYCLes? {1|2|3|4|5|6}

DIAGnostic:RELAy:CYCLes? (@<*ch_list*>)

DIAGnostic:RELAy:CYCLes:CLEar (@<*ch_list*>)

INSTrument:DMM:CONNect

INSTrument:DMM:CONNect?

INSTrument:DMM:DISConnect

INSTrument:DMM:DISConnect?

INSTrument:DMM:INSTalled?

INSTrument:DMM[:STATe] {OFF|0|ON|1}

INSTrument:DMM[:STATe]?