

**Parameters:**

&lt;WhiteBackground&gt; OFF | ON

\*RST: OFF

**Usage:** Asynchronous command**Manual operation:** See "[White background](#)" on page 436

---

**HCOPy:DATA?**

Creates a PNG screenshot and returns the data of the image file in a binary data stream. When receiving the data, write them into a PNG file which you can open later.

**Usage:** Query only  
Asynchronous command

## 18.13 Automatic measurements

This section contains all remote commands to set up automatic measurements and to analyze the measurement results.

**Measurement suffix <mg>**

The suffix <mg> indicates the number of the measurement for which the command takes effect.

### 18.13.1 General settings

MEASurement<mg>:COUNT?	1045
MEASurement<mg>[:ENABLE]	1046
MEASurement<mg>:SOURce	1046
MEASurement<mg>:FSRC	1046
MEASurement<mg>:SSRC	1047
MEASurement<mg>:MAIN	1047
MEASurement<mg>:DISPLAY:RESULTS	1047
MEASurement<mg>:DISPLAY:REFLevel<rl>:LEVELs	1048
MEASurement<mg>:ENVSelect	1048

---

**MEASurement<mg>:COUNT?**

Returns the maximum number of measurements, which is the maximum value for the <mg> suffix.

**Suffix:**

&lt;mg&gt; Irrelevant, omit the suffix.

**Return values:**

&lt;Count&gt; Maximum number of measurements

**Usage:** Query only  
Asynchronous command

---

**MEASurement<mg>[:ENABLE] <First>**

Switches the indicated measurement on or off.

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Parameters:**  
<First> OFF | ON

**Usage:** Asynchronous command

---

**MEASurement<mg>:SOURce <SignalSource>,[<SignalSource2>]**

Sets the source of the measurement.

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Parameters:**  
<SignalSource> NONE | C1 | C2 | ... | C8 | D0 | D1 | D2 | ... | D14 | D15 | M1 | M2 | ... | M8 | TRK1 | TRK2 | TRK3 | ... | TRK24 | PA1QPOWER | PA2QPOWER | ... | PA6QPOWER | PA1HPOWER1 | PA2HPOWER1 | ... | PA6HPOWER1 | PA1SPOWER | PA2SPOWER | ... | PA6SPOWER | PA1SOA | PA2SOA | ... | PA6SOA | PA1IPOWER | PA2IPOWER | ... | PA6IPOWER | PA1OPOWER1 | PA2OPOWER1 | ... | PA6OPOWER1 | PA1OPOWER2 | PA2OPOWER2 | ... | PA6OPOWER2 | PA1OPOWER3 | PA2OPOWER3 | ... | PA6OPOWER3 | PA1TOPOWER | PA2TOPOWER | ... | PA6TOPOWER | O<n>C1 | O<n>C2 | ... | O<n>C8 (<n> = 2 to 8)

<SignalSource2> Same as <SignalSource>

**Usage:** Asynchronous command

**Manual operation:** See "[Source](#)" on page 272

---

**MEASurement<mg>:FSRC <Source>**

Defines the first measurement source.

The command is an alternative to [MEASurement<mg>:SOURCE](#).

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Parameters:**  
<Source> See [MEASurement<mg>:SOURce](#) on page 1046.

**Usage:** Asynchronous command

---

**MEASurement<mg>:SSRC <Source2>**

Defines the second measurement source.

The command is an alternative to [MEASurement<mg>: SOURCE](#).

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Source2> See [MEASurement<mg>: SOURCE](#) on page 1046.

**Usage:** Asynchronous command

**Manual operation:** See "Source 2, Clock source" on page 283

---

**MEASurement<mg>:MAIN <MeasType>**

Defines the measurement type to be performed. To query the result, use [MEASurement<mg>: RESULT\[:ACTual\]](#) on page 1058.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<MeasType> **Amplitude/time measurements**  
HIGH | LOW | AMPLitude | MAXimum | MINimum | PDELta |  
MEAN | RMS | STDDev | CREST | POVershoot | NOVershoot |  
AREA | RTIMe | FTIMe | PPULse | NPULse | PERiod | FRE-  
Quency | PDCYcle | NDCYcle | CYCarea | CYCMean | CYCRms  
| CYCStddev | CYCCrest | CAMPlitude | CMAXimum | CMINI-  
mum | CPDelta | PULCnt | DELay | PHASE | BWIDth | EDGe-  
count | SETup | HOLD | SHT | SHR | DTOTrigger | SLERising |  
SLEFalling

**Jitter measurements**

CCJitter | NCJitter | CCWidth | CCDutycycle | TIE | UNTerval |  
DRATe | SKWDelay | SKWPhase  
Require option R&S MXO5-K12.

**Measurements for serial protocols**

F2F | T2F | F2T | FLDValue | MBITrate | SBITrate | BIDLe | GAP  
| FCNT | FEC | FER | CFER  
Require option R&S MXO5-K500.

**Usage:** Asynchronous command

**Manual operation:** See "Specific type" on page 273

---

**MEASurement<mg>:DISPLAY:RESULTS <ResultLines>**

Enables the measurement annotations for the selected measurement. These annotations are, for example, periods, maximum and minimum values, relevant reference levels, and more.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<ResultLines> OFF | ON

\*RST: OFF

**Usage:** Asynchronous command

**Manual operation:** See "[Display result lines](#)" on page 281

---

**MEASurement<mg>:DISPlay:REFLevel<rl>:LEVels <DisplayLevels>**

Displays the reference levels of the indicated measurement.

**Suffix:**

<mg> 1 to 24, index of the measurement

<rl> Irrelevant, omit the suffix.

Reference level set is assigned to the measurement.

**Parameters:**

<DisplayLevels> OFF | ON

\*RST: OFF

**Usage:** Asynchronous command

---

**MEASurement<mg>:ENVSelect <EnvelopeCurve>**

Relevant only for measurements on envelope waveforms. It selects the envelope to be used for measurement.

Prerequisites:

- [ACQuire:TYPE](#) is set to ENVElope.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<EnvelopeCurve> MIN | MAX | BOTH

**MIN**

Measures on the lower envelope.

**MAX**

Measures on the upper envelope.

**BOTH**

The envelope is ignored, and the waveform is measured as usual.

\*RST: BOTH

**Usage:** Asynchronous command

**Manual operation:** See "[Envelope](#)" on page 281

### 18.13.2 Settings for amplitude/time measurements

MEASurement<mg>:AMPTime:CSlope.....	1049
MEASurement<mg>:AMPTime:ESlope.....	1049
MEASurement<mg>:AMPTime:PTCount.....	1049
MEASurement<mg>:AMPTime:PSlope.....	1050
MEASurement<mg>:AMPTime:DElay<n>:DIRection.....	1050
MEASurement<mg>:AMPTime:DTOTrigger<n>:SLOPe.....	1050
MEASurement<mg>:AMPTime:DElay<n>:SLOPe.....	1051
MEASurement<mg>:GATE.....	1051
MEASurement<mg>:REFLevel<r1>:REFERENCE.....	1051

---

#### MEASurement<mg>:AMPTime:CSlope <SetHoldClkSlp>

Sets the edge of the clock from which the setup and hold times are measured.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<SetHoldClkSlp> POSitive | NEGative | EITHer  
\*RST: POSitive

**Usage:** Asynchronous command

**Manual operation:** See "[Clock slope](#)" on page 283

---

#### MEASurement<mg>:AMPTime:ESlope <EdgesSlope>

Sets the edge direction to be counted: rising edges, falling edges, or both. The setting is only relevant for edge count measurement [MEASurement<mg>:MAIN](#) is set to EDGecount.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<EdgesSlope> POSitive | NEGative | EITHer  
\*RST: POSitive

**Usage:** Asynchronous command

**Manual operation:** See "[Edges slope](#)" on page 282

---

#### MEASurement<mg>:AMPTime:PTCount <PulseCount>

Sets the number of positive pulses for the pulse train measurement. It measures the duration of N positive pulses from the rising edge of the first pulse to the falling edge of the N-th pulse.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<PulseCount>      Range:    1 to 2147483647  
                      Increment: 1  
                      \*RST:     1

**Usage:**            Asynchronous command

**Manual operation:** See "[Pulse count](#)" on page 282

---

**MEASurement<mg>:AMPTime:PSlope <PulsesSlope>**

Sets the first slope of the pulses to be counted. The setting is only relevant for pulse count measurement ([MEASurement<mg>:MAIN](#) is set to PULCnt).

**Suffix:**

<mg>                1 to 24, index of the measurement

**Parameters:**

<PulsesSlope>      POSitive | NEGative | EITHer  
                      \*RST:     POSitive

**Usage:**            Asynchronous command

**Manual operation:** See "[Pulse slope](#)" on page 282

---

**MEASurement<mg>:AMPTime:DELay<n>:DIRection <EdgeCountDir>**

Selects the direction for counting slopes for each source: from the beginning of the waveform, or from the end.

**Suffix:**

<mg>                1 to 24, index of the measurement

<n>                1..2

Selects the source number.

**Parameters:**

<EdgeCountDir>      FRFI | FRLA  
                      FRFI - FFrom FIrst, counting starts with the first edge of the waveform.  
                      FRLA - FFrom LAst, counting starts with the last edge of the waveform.  
                      \*RST:     FRFI

**Usage:**            Asynchronous command

**Manual operation:** See "[Direction](#)" on page 284

---

**MEASurement<mg>:AMPTime:DTONTrigger<n>:SLOPe <DlyTrigSlp>**

Sets the edge direction to be used for delay measurement.

**Suffix:**

<mg>                1 to 24, index of the measurement

<n> 1..2  
Selects the source number.

**Parameters:**  
<DlyTrigSlp> POSitive | NEGative | EITHer  
\*RST: POSitive

**Usage:** Asynchronous command

**Manual operation:** See "[Delay to trigger measurement settings](#)" on page 284

---

**MEASurement<mg>:AMPTime:DELay<n>:SLOPe <Slope>**

Sets the edge of each source, between which the delay is measured.

**Suffix:**  
<mg> 1 to 24, index of the measurement

<n> 1..2  
Selects the source number.

**Parameters:**  
<Slope> POSitive | NEGative | EITHer  
\*RST: POSitive

**Usage:** Asynchronous command

**Manual operation:** See "[Edges slope](#)" on page 282

---

**MEASurement<mg>:GATE <Gate>**

Sets the gate of the indicated measurement. Enable a gate before you assign a measurement to it ([GATE<g>:ENABLE =ON](#)).

The query returns 0, if no gate is assigned.

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Parameters:**  
<Gate> Number of the gate to be used

**Usage:** Asynchronous command

**Manual operation:** See "[Gate](#)" on page 274

---

**MEASurement<mg>:REFLevel<rl>:REFERENCE <RefLevelSet>**

Selects the set of reference levels that is used for the measurement and for the indicated measurement source. Each source of the measurement can have its own reference level set.

**Suffix:**  
<mg> 1 to 24, index of the measurement

<rl>	1..2 Measurement source, to which the reference level set is applied. For most measurements, one source is needed. For delay measurements, for example, two measurement sources are required, and each source can have its own reference levels.
<b>Parameters:</b>	
<RefLevelSet>	Number of the reference level set. Define the reference level set before you use it.
<b>Example:</b>	<pre>MEASurement1:MAIN DELay MEASurement1:SOURce C1,C2 MEASurement1:REFLevel1:REFerence 1 MEASurement1:REFLevel2:REFerence 2</pre> <p>Measurement 1 is a delay measurement on channel 1 and channel 2. C1 is the first source and uses reference level set 1 (RL1). C2 is the second source and uses reference level set 2 (RL2).</p>
<b>Usage:</b>	Asynchronous command
<b>Manual operation:</b>	See " <a href="#">Reference levels</a> " on page 274

### 18.13.3 Settings for jitter measurements

MEASurement<mg>:JITTER:NCYCles.....	1052
MEASurement<mg>:JITTER:POLarity.....	1053
MEASurement<mg>:JITTER:REFLevel<rl>.....	1053
MEASurement<mg>:JITTER:RELPolarity.....	1054
MEASurement<mg>:JITTER:SLOPe.....	1054
MEASurement<mg>:JITTER:TREF.....	1055
MEASurement<mg>:JITTER:UNIT.....	1055

#### MEASurement<mg>:JITTER:NCYCles <NumberCycles>

Sets the number of periods (cycles) that are accumulated to measure the N-cycle jitter.

<b>Suffix:</b>	
<mg>	1 to 24, index of the measurement
<b>Parameters:</b>	
<NumberCycles>	Range: 1 to 4294967295 Increment: 1 *RST: 2
<b>Usage:</b>	Asynchronous command
<b>Manual operation:</b>	See " <a href="#">Number of cycles</a> " on page 288

---

**MEASurement<mg>:JITTer:POLarity <Polarity>**

For cycle-cycle width and the cycle-cycle duty cycle measurements, the command sets the polarity of pulses for which the pulse width is measured: POSitive or NEGative.

[MEAsurement<mg>:MAIN](#) is set to measurements CCWidth | CCDutyCycle.

For skew delay and skew phase measurements, the command sets the edge of the first waveform from which the measurements starts: POSitive, NEGative or EITHer.

[MEAsurement<mg>:MAIN](#) is set to measurements SKWDelay | SKWPhase.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Polarity> POSitive | NEGative | EITHer

\*RST: POSitive

**Usage:** Asynchronous command

**Manual operation:** See "[Pulse polarity](#)" on page 288

---

**MEASurement<mg>:JITTer:REFLevel<rl> <ReferenceLevel>**

Selects the reference level that is used for the measurement and for the indicated measurement source. Each source of the measurement can have its own reference level .

**Suffix:**

<mg> 1 to 24, index of the measurement

<rl> 1..2

Measurement source, to which the reference level set is applied. For most measurements, one source is needed. For delay measurements, for example, two measurement sources are required, and each source can have its own reference levels.

**Parameters:**

<ReferenceLevel> UPPer | MIDDle | LOWER

\*RST: MIDDle

**Example:**

MEASurement1:MAIN SKWDelay

MEASurement1:SOURce C1,C2

MEASurement1:JITTer:REFLevel1 MIDDle

MEASurement1:JITTer:REFLevel2 UPPer

Measurement 1 is a skew delay measurement on channel 1 and channel 2. C1 is the first source and uses the middle reference level. C2 is the second source and uses the upper reference level.

**Usage:** Asynchronous command

**Manual operation:** See "[Reference level](#)" on page 288

---

**MEASurement<mg>:JITTer:RELPolarity <RelPolarity>**

Sets the edge of the second waveform relative to the first waveform.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<RelPolarity> MATCHing | INVerse

**MATCHing**

Measures from positive to positive edge or from negative to negative edge.

**INVerse**

Measures from positive to negative edge or from negative to positive edge.

\*RST: MATCHing

**Usage:** Asynchronous command

**Manual operation:** See "[Relative polarity](#)" on page 288

---

---

**MEASurement<mg>:JITTer:SLOPe <Slope>**

For cycle-cycle jitter, N-cycle jitter, and cycle-cycle duty cycle measurements, the setting selects the slope at which the periods and thus the jitter is measured: FIRSt, POSitive, NEGative or EITHer. [MEASurement<mg>:MAIN](#) is set to measurements CCJitter | NCJitter | CCDutycycle.

For time-interval error measurements, the command sets the edges of the data signal that are used for measurements: POSitive, NEGative or EITHer. [MEASurement<mg>:MAIN](#) is set to TIE.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Slope> FIRSt | POSitive | NEGative | EITHer

\*RST: FIRSt

<Slope> FIRSt | POSitive | NEGative | EITHer

**FIRSt**

Measures the period from the first edge that is found, no matter of its direction.

**POSitive**

Measures the period at positive going edges.

**NEGative**

Measures the period at negative going edges.

**EITHer**

Measures the period at both positive and negative going edges. This option is useful, for example, to check the clock stability of a double data rate clock.

\*RST: FIRSt

**Usage:** Asynchronous command

**Manual operation:** See "[Cycle begin, Slope](#)" on page 287

#### MEASurement<mg>:JITTer:TREF <TimingReference>

Selects the timing reference, which is one of the available clock configurations. The timing reference must be defined before it can be used.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<TimingReference> Range: 1 to 4

**Usage:** Asynchronous command

**Manual operation:** See "[Timing reference](#)" on page 290

#### MEASurement<mg>:JITTer:UNIT <Unit>

Sets the unit for data rate measurements.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Unit> BIT\_S | HZ

\*RST: BIT\_S

**Usage:** Asynchronous command

**Manual operation:** See "[Unit](#)" on page 290

### 18.13.4 Settings for protocol measurements

MEASurement<mg>:PROTocol:FNAME.....	1055
MEASurement<mg>:PROTocol:FDName.....	1056
MEASurement<mg>:PROTocol:FDValue.....	1056
MEASurement<mg>:PROTocol:F2Name.....	1056
MEASurement<mg>:PROTocol:FD2Name.....	1057
MEASurement<mg>:PROTocol:FD2Value.....	1057

#### MEASurement<mg>:PROTocol:FNAME <FrameName>

Sets or queries the name of the frame or the frame type, at which the oscilloscope executes or starts the measurement.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

&lt;FrameName&gt;

**Usage:** Asynchronous command**Manual operation:** See "[Frame Type](#)" on page 293

---

**MEASurement<mg>:PROTocol:FDName <FieldName>**

Sets or queries the name of the field or the field type, at which the oscilloscope executes or starts the measurement.

**Suffix:**

&lt;mg&gt; 1 to 24, index of the measurement

**Parameters:**

&lt;FieldName&gt;

**Usage:** Asynchronous command**Manual operation:** See "[Field Type](#)" on page 293

---

**MEASurement<mg>:PROTocol:FDValue <FieldValue>**

Sets or queries the one or more values of the field, at which the oscilloscope executes or starts the measurement.

**Suffix:**

&lt;mg&gt; 1 to 24, index of the measurement

**Parameters:**

&lt;FieldValue&gt; List of comma-separated values

**Usage:** Asynchronous command**Manual operation:** See "[Field Value](#)" on page 293

---

**MEASurement<mg>:PROTocol:F2Name <Frame2Name>**

Sets or queries the name of the frame or the frame type, at which the oscilloscope ends the measurement in a "From" - "To" condition.

**Suffix:**

&lt;mg&gt; 1 to 24, index of the measurement

**Parameters:**

&lt;Frame2Name&gt;

**Usage:** Asynchronous command**Manual operation:** See "[Frame Type](#)" on page 293

---

**MEASurement<mg>:PROTocol:FD2Name <Field2Name>**

Sets or queries the name of the field or the field type, at which the oscilloscope ends the measurement in a "From" - "To" condition.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Field2Name>

**Usage:** Asynchronous command

**Manual operation:** See "[Field Type](#)" on page 293

---

**MEASurement<mg>:PROTocol:FD2Value <Field2Value>**

Sets or queries the one or more values of the field, at which the oscilloscope ends the measurement in a "From" - "To" condition.

**Suffix:**

<mg> 1 to 24, index of the measurement

**Parameters:**

<Field2Value> List of comma-separated values

**Usage:** Asynchronous command

**Manual operation:** See "[Field Value](#)" on page 294

## 18.13.5 Results

MEASurement<mg>:CLEar.....	1057
MEASurement<mg>:RESULT[:ACTual]?	1058
MEASurement<mg>:RESULT:AVG?.....	1058
MEASurement<mg>:RESULT:NPEak?.....	1058
MEASurement<mg>:RESULT:PPEak?.....	1058
MEASurement<mg>:RESULT:RMS?.....	1058
MEASurement<mg>:RESULT:WFMCount?.....	1058
MEASurement<mg>:RESULT:EVTCount?.....	1058
MEASurement<mg>:RESULT:STDDev?.....	1058
MEASurement<mg>:RESULT:START?.....	1058
MEASurement<mg>:RESULT:STOP?.....	1058
MEASurement<mg>:RESULT:EVENts:COUNT?.....	1059
MEASurement<mg>:RESULT:EVENts:START?.....	1059
MEASurement<mg>:RESULT:EVENts:STOP?.....	1059
MEASurement<mg>:RESULT:EVENts:VALue?.....	1060

---

**MEASurement<mg>:CLEar**

Deletes the results of all measurements.

**Suffix:**

<mg> Irrelevant, omit the suffix.

**Usage:** Setting only

Asynchronous command

**Manual operation:** See "[Clear results](#)" on page 296

---

**MEASurement<mg>:RESUlt[:ACTual]?**

**MEASurement<mg>:RESUlt:AVG?**

**MEASurement<mg>:RESUlt:NPEak?**

**MEASurement<mg>:RESUlt:PPEak?**

**MEASurement<mg>:RESUlt:RMS?**

**MEASurement<mg>:RESUlt:WFMCount?**

**MEASurement<mg>:RESUlt:EVTCount?**

**MEASurement<mg>:RESUlt:STDDev?**

Return the statistic results of the specified measurement. The measurement type is defined with [MEASurement<mg>:MAIN](#).

- [:ACTual]: current measurement result
- AVG: average of the measurement results
- EVTCount: number of measurement results in the measurement
- NPEak: negative peak value of the measurement results
- PPEak: positive peak value of the measurement results
- RMS: RMS value of the measurement results
- STDDev: standard deviation of the measurement results

**Suffix:**

<mg> 1 to 24, index of the measurement

**Return values:**

<Result> Numeric result value

**Usage:** Query only

Asynchronous command

---

**MEASurement<mg>:RESUlt:STARt?**

**MEASurement<mg>:RESUlt:STOP?**

Return the start and stop times of the specified measurement. The parameter defines the measurement. If no parameter is specified, the result of the main measurement is returned. The main measurement is defined using [MEASurement<mg>:MAIN](#).

**Suffix:**

<mg> 1 to 24, index of the measurement

**Return values:**

<Stop> Range: -1E+26 to 1E+26  
Increment: 0  
\*RST: 0

**Usage:** Query only  
Asynchronous command

---

**MEASurement<mg>:RESUlt:EVENts:COUNt?**

Returns the number of measured events in one acquisition.

The command is relevant for measurements of all events, see [MEASurement<mg>:MULTiple](#).

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Return values:**  
<Count> Number of events

**Usage:** Query only  
Asynchronous command

---

**MEASurement<mg>:RESUlt:EVENts:STARt? <EventIndex>**

Returns the start time of the indicated measured event.

The command is relevant for measurements of all events, see [MEASurement<mg>:MULTiple](#).

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Setting parameters:**  
<EventIndex> Index number of the measured event.

**Return values:**  
<EventStart> Range: -1E+26 to 1E+26  
Increment: 0  
\*RST: 0

**Usage:** Query only  
Asynchronous command

---

**MEASurement<mg>:RESUlt:EVENts:STOP? <EventIndex>**

Returns the end time of the indicated measured event.

The command is relevant for measurements of all events, see [MEASurement<mg>:MULTiple](#).

**Suffix:**  
<mg> 1 to 24, index of the measurement

**Setting parameters:**  
<EventIndex> Index number of the measured event.

**Return values:**

<EventStop>      Range: -1E+26 to 1E+26  
                   Increment: 0  
                   \*RST: 0

**Usage:**

Query only  
                   Asynchronous command

**MEASurement<mg>:RESUlt:EVENts:VALue? <MeasResEvtIdx>**

Returns the measured value of the indicated measured event.

The command is relevant for measurements of all events, see [MEASurement<mg>:MULTiple](#).

**Suffix:**

<mg>      1 to 24, index of the measurement

**Setting parameters:**

<EventIndex>      Index number of the measured event.

**Return values:**

<EventValue>      Range: -1E+26 to 1E+26  
                   Increment: 1E-10  
                   \*RST: 0

**Usage:**

Query only  
                   Asynchronous command

### 18.13.6 Statistics

<a href="#">MEASurement&lt;mg&gt;:STATistics:RESet</a> .....	1060
<a href="#">MEASurement&lt;mg&gt;:STATistics:ARESet</a> .....	1060
<a href="#">MEASurement&lt;mg&gt;:STATistics[:ENABLE]</a> .....	1060
<a href="#">MEASurement&lt;mg&gt;:MULTiple</a> .....	1061
<a href="#">MEASurement&lt;mg&gt;:MNOMeas</a> .....	1061

**MEASurement<mg>:STATistics:RESet****MEASurement<mg>:STATistics:ARESet**

Resets the statistics for all measurements.

**Suffix:**

<mg>      Irrelevant, omit the suffix.

**Usage:**

Setting only  
                   Asynchronous command

**Manual operation:** See "Clear results" on page 296

**MEASurement<mg>:STATistics[:ENABLE] <GlobalEnable>**

Enables statistics calculation for all measurements.

**Suffix:**

<mg> Irrelevant, omit the suffix.

**Parameters:**

<GlobalEnable> OFF | ON

\*RST: OFF

**Usage:** Asynchronous command

**Manual operation:** See "[Statistics](#)" on page 296

**MEASurement<mg>:MULTiple <GlobalMeassAll>**

If ON, the measurement is performed repeatedly if the measured parameter occurs several times inside the acquisition or defined gate. All results are included in evaluation, e.g. in statistics. To set the number of results to be considered, use [MEASurement<mg>:MNOMeas](#).

**Suffix:**

<mg> Irrelevant, omit the suffix.

**Parameters:**

<GlobalMeassAll> OFF | ON

\*RST: OFF

**Usage:** Asynchronous command

**Manual operation:** See "[Measure all events](#)" on page 297

**MEASurement<mg>:MNOMeas <MaxMeasPerAcq>**

Sets the maximum number of measurements per acquisition if [MEASurement<mg>:MULTiple](#) is on. The setting affects all measurements.

**Suffix:**

<mg> Irrelevant, omit the suffix.

**Parameters:**

<MaxMeasPerAcq> Range: 2 to 1E6

Increment: 1

\*RST: 1E6

**Usage:** Asynchronous command

**Manual operation:** See "[Max. No. of events](#)" on page 297

## 18.13.7 Tracks

<a href="#">MEASurement&lt;mg&gt;:TRACK[:STATe]</a> .....	1062
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