

Pulser Parameter IDs and Definitions

**NOTE: Not all parameters and/or values for parameters are valid for all pulsers.
Check with the pulser supplier for the capabilities of the specific pulser.**

General Pulser Parameters

- 1** The temperature of the pulser (Read Only)
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Common Pulser Parameters

- 501** Pulser Main Trigger - This allows the user to set the triggering
0 = Internal Trigger
1 = External Trigger
2 = Single Shot
3 = Single Shot Internal
- 502** Frequency for internal triggering (Hz)
- 503** Threshold for external triggering (volts)
- 504** Slope for external triggering
0 = Positive
1 = Negative
- 505** Termination for External Triggering
0 = 50 Ohms
1 = High Z (High Impedence)
- 506** Coupling for External triggering
0 = AC
1 = DC
- 507** On chip accumulation for multiple triggers before readout
- 508** Pulse Width in nanoseconds
- 509** Pulse Delay in nanoseconds
- 510** Aux delay in nanoseconds
- 511** Burst Mode Flag
1 = Active
0 = Disabled
- 512** Burst Period
- 513** Burst Count
- 514** Anticipator Active
1 = Active
0 = Disabled
- 515** Anticipator Delay
- 516** Trigger Count type
1 = Count Main Triggers Only

- 2 = Count Main and Burst Triggers
 - 517** Trigger count (Read Only)
 - 518** Trigger output
 - 1 = Enable
 - 0 = Disable
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Sequential Linear Parameters

- 601** Pulsing Mode
 - 1 = Continuous Repetitive
 - 2 = Sequential
 - 602** Type of Sequential Mode Pulsing
 - 0 = Linear
 - 1 = Exponential
 - 2 = Custom
 - 603** Number of shots for Sequential Mode
 - 604** Delay Start for Sequential Linear Mode
 - 605** Delay End for Sequential Linear Mode
 - 606** Width Start for Sequential Linear Mode
 - 607** Width End for Sequential Linear Mode
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Sequential Exponential Parameters

- 608** Slow Tau (Time Constant)
- 609** Slow Amplitude
- 610** Fast Tau (Time Constant)
- 611** Fast Amplitude

Custom Parameters

- 612** Sequence Pulse Delay Array
 - 613** Sequence Pulse Width Array
 - 614** Sequence Aux Delay Array
 - 615** Sequence On Chip Accumulation Array
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Calibration Parameters

- 1001** Use Calibration Flag
 - 1 = Active
 - 0 = Disabled
 - 1002** Pulse Delay From
 - 1601 = Calculate delay from External Trigger In
 - 1602 = Calculate delay from T0 Out
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Miscellaneous Parameters

- 1101** Fast Pulse Enable Flag
 - 1 = Active
 - 0 = Disabled
- 1102** Bracket Pulse Enable Flag
 - 1 = Active
 - 0 = Disabled
- 1103** Bracket Pulse Start (where to start bracket)
 - 0 = Host (SW Control)
 - 1 = Main and Burst Triggers
 - 2 = Main Trigger Only
 - 3 = Pre-Trigger Input
 - 4 = Anticipation Trigger