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# Single-Channel Pulse-Height Analyzers Selection Guide

## Single-Channel Analyzer Applications Guide

| Model | Recommendations |
|---|---|
| 550A | Versatile, economical, general-purpose counting. |
| 551 | SCA plus constant-fraction timing. |
| 552 | SCA plus constant-fraction timing and pulse-shape analysis. |
| 590A | Cost efficient, includes built-in amplifier. |
| 850 | Economical, four SCAs in a single-width module for general-purpose counting. |

## Single-Channel Analyzer Selection Guide

| Model | 550A | 551 | 552 | 590A | 850 |
|---|---|---|---|---|---|
| SCA Output Trigger | LLD reset | Constant fraction (50%) | Selectable constant fractions (2), or zero crossing | Peak detect | LLD reset |
| Modes | Asymmetric window, symmetric window, normal or integral | Window, normal or integral | Window, normal or integral | Window or integral | Window, normal or integral |
| Lower-Level Range (V) | 0.02–10 (10-turn) | 0.05–10 (10-turn) | 0.04–10 (10-turn) | 0.05–10 (10-turn) | 0.02–9.99 |
| Upper-Level Range (V) | 0–10 or 0–1 (10-turn) | 0–10 or 0–1 (10-turn) | 0–10 or 0–1 (10-turn) | 0–10 or 0–1 with internal jumper (10-turn) | 0.02–9.99 |
| Delay Range | None | 0.1–1.1 µs 1–11 µs (10-turn) | 0.1–1.1 µs (10-turn) | None | None |
| Input Coupling | DC | AC or DC | DC | Input directly coupled to amplifeir output | DC |
| External Strobe | No | Yes | Yes | No | No |
| External Baseline | Yes | Yes | Yes | Yes | Yes |
| Integral Non-Linearity (%) | ≤±0.25 | ≤±0.25 | ≤±0.25 | ≤±0.25 | ≤±0.25 |
| SCA Output Polarity | Positive | Positive and Negative | Positive and Negative | Positive | Positive |

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Specifications subject to change
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