

DOBLE PROTECTION TESTING

F6051

Time Synchronizer

PROVIDES PRECISE TIME SYNCHRONIZATION IN AREAS WITH ACCESS TO STATION TIME CLOCKS

The Doble F6051 is a compact, IRIG-B time protocol converter for when you need precise time synchronization according to industry and security standards. With the Doble F6051, interior time stamping is possible. Use Doble's F6051 in combination with Doble's F-Series Power System Simulators to accept modulated or demodulated signals from station satellite clocks.

FEATURES

- Generates a 1pps signal for accurate time stamping
- Accepts modulated or demodulated signals from station satellite clocks
- IRIG-B signal enters through a BNC connector
- GPS 1pps signal exits through an RS-422 connector

BENEFITS

- Use when you are unable to run a satellite antenna cable outside
- Generate time stamp even if doors and windows cannot be opened for prolonged period due to CIP compliance concerns
- Capable of time synchronization for PMU, IEC 61850, & end-to-end testing where an IRIG-B source is available
- Eliminates tangled satellite cables
- Fits conveniently in your lead bag



DOBLE F6051 TECHNICAL SPECIFICATIONS

| GENERAL SPECIFICATIONS | |
|--------------------------------|--|
| POWER INPUT/OUTPUT | RANGE |
| Power Supply | 120-240 volt AC (1 amp max) |
| F6051 | +12V, max power 15 watts |
| F6051 BNC Data input | 5 volts peak |
| 1PPS signal | ±1.5V minimum and ±2.5V maximum |
| DATA INPUT | FORMAT |
| IRIG-B BNC input | Unmodulated IRIG-B000 Modulated IRIG-B120 |
| DATA OUTPUT | FORMAT |
| RS422, 15 pin D type connector | 1pps |
| ENVIRONMENT | RANGE |
| Temperature | Operating: 0°C to 50°C (32°F to 122°F) Storage: -20°C to 80°C (-4°F to 176°F) |
| SIGNAL ACCURACY | |
| Type | IRIG-B000, 004 Un-modulated |
| | IRIG - B120, 124 Modulated |
| Offset | + 6µs |
| | + 9µs |
| DIMENSIONS & WEIGHT | |
| Length | 164 mm/ 6.5 in without end caps, 173 mm/ 6.8 in with end caps |
| Width | 107.5 mm/ 4.2 in without end caps, 114 mm/ 4.5 in with end caps |
| Height | 29.5 mm/ 1.2 in without end caps, 36 mm/ 1.43 in with end caps |
| Weight | 0.45 kg/ 16 oz |



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Specifications are subject to change without notice.
Doble is an ISO 9001 & ISO/IEC 17025 & 17034 Certified Company.
Doble is an ESCO Technologies Company.
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