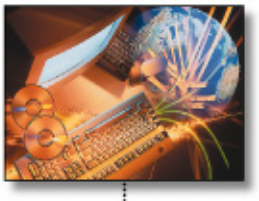
TESTIME^{PLUS}™ RubiSource™-2000

NEW!

Portable Rubidium Timing Reference Source

Cost-effective timing source for telecom/metrology test/measurement applications

- ✔ *SDH/SONET/PDH Jitter/Wander measurement source*
- ✔ *Outputs: E1/T1, 2048/1544 kHz & 5/10 MHz*
- ✔ *Compact, robust & lightweight*
- ✔ *External auto-calibration input*
- ✔ *Optional GPS/Cesium reference input*



The Best Investment Today
for Delivering Superior Telecom Services!

datum

LOW-COST TIMING SOURCE FOR TELECOM/METROLOGY TEST/MEASUREMENT SOLUTIONS

NEW TESTIME^{PLUS} RUBIDIUM SOURCE

The RubiSource-2000 is a new, low-cost portable timing reference source based on DATUM's Rubidium clock technology. It's designed for telecom and metrology test and measurement applications. The Rubidium clock provides highly accurate, stable and reliable output signals. Its fast warm-up eliminates the need of bulky backup batteries. The RubiSource can be locked to an external primary source such as a GPS or Cesium for automatic calibration of the Rubidium clock. An input reference is also provided to feed DATUM's GPS-FC product, enhancing the intrinsic Rubidium accuracy to near Cesium quality.

RUBISOURCE-2000 APPLICATIONS

Telecom

The RubiSource is a powerful reference source to quickly measure and test the synchronization quality of PDH/SDH/SONET digital networks. MTIE and TDEV measurements for up to 1000 seconds can be easily performed without a GPS reference. Coupled with the optional GPS-FC, the range of observation time can be largely extended to meet specific requirements.

Metrology

Standard 5 MHz and 10 MHz reference sources are also provided for metrology and calibration laboratory equipment such as universal counters, spectrum analyzers and synthesized signal generators.

KEY RUBISOURCE-2000 FEATURES

Accuracy

✔ Frequency accuracy (factory shipment): + 5 x 10^{-11} @ 25°C

Aging

✔ Aging: < 5 x 10^{-11}/month, <1 x 10^{-9} over 10 years

Clock

✔ DATUM's Rubidium LPRO product

Output

Unframed Outputs

✔ 1 x 5 MHz Sine, 1Vrms, 50, BNC
✔ 1 x 10 MHz Sine, 1Vrms, 50, BNC
✔ 2 x 2048 kHz, G.703.10, 75 unbalanced, BNC
✔ 2 x 2048 kHz, G.703.10, 120 balanced, BNC Twinax
✔ 1 x 1544 kHz, 2,5 Vpp, 75, BNC
✔ 1 x 1544 kHz, 3 Vpp, 120, BNC Twinax

Framed Outputs

✔ 1 x 2.048 Mbps (E1), G703.6, HDB3, 75 unbalanced, BNC
✔ 1 x 2.048 Mbps (E1), G703.6, HDB3, 120 balanced, BNC Twinax
✔ 1 x 1.544 Mbps (T1), AMI, BNC
✔ 1 x 1.544 Mbps (T1), AMI, BNC Twinax

Calibration Input

✔ 1x auto-calibration input: 10/5 MHz (LED status of external calibration)
✔ 1x input reference: DATUM's GPS-FC product

Power Supply

✔ 100-240 Vac, 50-60 Hz, < 80 W

Size

✔ 98 x 253 x 365 mm or 3.85 x 9.96 x 14.37 inch (WxHxD)

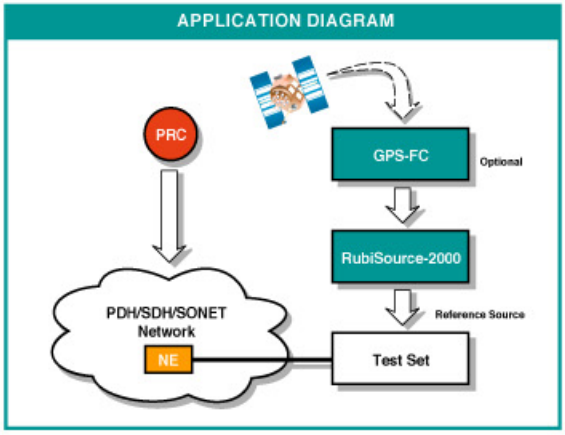
Weight

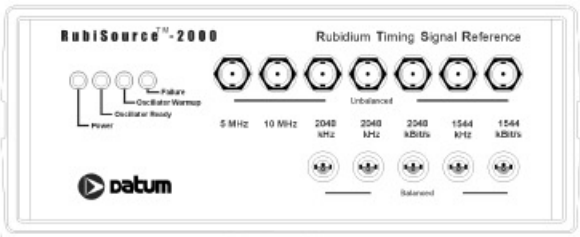
✔ About 5 kg or 11 pds

Standards

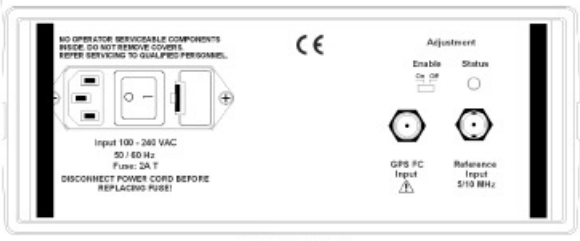
✔ EN 61326-1:1997
✔ EN 61010-1:1993

APPLICATION DIAGRAM





Front View



Rear View

ONLINE TESTIME^{PLUS} DATA SUPPORT

Visit our web site today at **www.datum.com** for the latest information, including application notes, references, Q&A assistance, and technical support.

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Printed in the USA
(7-99) Rev. 1