

SOKKIA

3ASd

Remote Data Radio Kit

Fast and Easy Stakeout

Simply select the point in your data collector, and the instrument turns and aims to the stake point. Use the guidelight to get close to the point, and the Auto-Point feature of the SET110M will align with the prism, take a measurement, and report the cut/fill, in/out.



Total Remote Control

Using a Data Collector, the SET110M can be controlled remotely. On-board settings and functions can be changed from the data collector as needed. The SET110M can be controlled remotely by all major data collection products, without the need to change method of work or data collection platforms.



Easy Remote Setup

Setting up the SET110M for remote operation is extremely easy. Simply connect a Remote Data Radio as you would any data collector, and change the communications settings on the instrument to "Remote". Connect a Data Radio to your Data Collector and select the correct instrument type. That's all there is to it!



Improve Productivity On Site



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Using the Remote System, a crew can be more productive in the field by moving the data "to the pole" where decisions are made.

Everything In One Box

The Remote Data Radio Kit from Sokkia comes complete with everything needed to operate the SET110M Total Station remotely. The kit includes two 3ASd radios, two long-life rechargeable batteries, radio case/pole brackets, stub antennas (larger, long-range antennas are available), AC Chargers, and instrument and data collector cables (9-Pin Serial).

Fast Easy Setup

The 3ASd Remote Data Radio Kit comes pre-configured to operate with the SET110M Total Station. All that is required is to charge the batteries, connect to the instrument, confirm the settings on the instrument, and select transmit and receive frequencies. (Be sure to check all Federal, State and Local regulations that may apply regarding data radio transmission.) The 3ASd radios have an LCD screen and control buttons on the radio, providing the user with total control over the radio settings, eliminating the need to connect to a PC to configure the radio. The 3ASd radios can be configured to transmit, receive, or function as repeaters to extend distance. Optional antennas are available for increased range. Multiple radios may be used with the same instrument to provide multiple data readout, or multiple users for staking large sites. Additional radios can be added at any time to transfer data back to the office, or to other sites, and many other applications.



A Complete One-Person System

The SET110M Total Station, when used with a Remote Data Radio Kit, can function as a complete "one-man" system in the field. Everything can be transported to the site by one operator.



Remote Data Radio Kit 3ASd

Sokkia Corporation has chosen the Satel Remote Data Radio Kit 3ASd as a kit package available for the SET110M Total Station. The 3ASd radio system was chosen because of its history of reliability and durability in the field, and its ease of use.

Radio Specifications

Technical Specifications – Remote Data Radio Kit 3ASd
Sokkia Item # 6470-01

The equipment complies with the ETS 300 113 and 300 683 specifications. In addition it meets to EN 300 220-1 with 25 kHz channel spacing.

TRANSCEIVER

Frequency Range	380...470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Number of Channels	160 / 80
Frequency Stability	< 1.5 kHz
Type of Emission	F1D
Communication Mode	Half-Duplex

Transmitter

Carrier Power	10mW... 1 W / 50 ohm
Carrier Power Stability	+ 2 dB / -3 dB
Adjacent Channel Power	according to EN 300 220-1 / ETS 300 113
Spurious Radiations	according to EN 300 220-1 / ETS 300 113

Receiver

Sensitivity	-116...-110 dBm (BER < 10 E-3)
Co-channel rejection	> -12 dB
Adjacent Channel Selectivity	> 60 dB / >70 dB
Intermodulation Attenuation	> 65 dB
Spurious Radiations	< 2 nW

DATA MODEM

Interface	RS-232 or RS-485, RS-422
Interface Connector	D15, female DB9 (Base plate)
Data Speed of RS Interface	300 – 38400 bps
Data Speed of Radio Interface	19200 bps (25 kHz channel) 9600 bps (12, 5 kHz channel)
Data Formats	Asynchronous data

GENERAL

Operating voltage	+ 9 ...+30 Vdc
Power Consumption	1.8 VA typical (Receive) 6.0 VA typical (Transmit) 0.05 VA typical (when DTR is 000)
Temperature Range	-13°F ... 131°F (-25 C ... +55 C)
Antenna Connector	TNC, 50 ohm, female
Construction	Aluminum enclosure
Size H x W x D	5.4 x 2.6 x 1.2 in (137 x 67 x 29 mm)
Installation Plate	5.1 x 2.5 x 1 in (130 x 63 x 23 mm)
Weight	8.7 oz (250 g)