GENERAL SPECIFICATIONS

Type: Handheld Stationary Doppler Radar
Operating Frequency: 34.7 GHz (Ka-band)
Stability: ±100 MHz
Battery Type: Removable/rechargeable sealed battery handle containing a 7.2 Volt Li-Ion battery
Cell Capacity: 2000 mAh
Power Requirements: Removable Battery Handle: 7.2 VDC nominal Cigarette Plug Coil Cord Handle: 7.0 to 18.0 VDC (currents are typical at 12VDC with external power)
XMIT with all displays off and back light off: 280 mA
XMIT with moving target and back light: 280 mA
Standby with no target and back light: 300 mA
Standby with no target and back light on: 150 mA
Sleep mode: 30 mA (when battery powered only)

Environmental: -30°C to +70°C, 90% Relative Humidity, Operating 0°C to 45°C, 90% Relative Humidity, Battery Charging -40°C to +85°C, Non-Operating


Accuracy: +1, -2 MPH, +2, -3 KMH
Auto Self-Test: Performed every 10 minutes while transmitting
Speed Range: 5 MPH to 200 MPH Standard 15 MPH to 200 MPH (option menu selectable)

MICROWAVE SPECIFICATIONS

Antenna: Conical horn
Polarization: Circular
3db Beamwidth: 12° ±1°
RF Source: Gunn-Effect diode
Receiver Type: Two Direct Conversion Homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output: 10 mW minimum 15 mW nominal 25 mW maximum
Power Density: 2 mW/cm² maximum at 5 cm from lens

DISPLAY WINDOW INDICATORS

A flashing RFIT message indicates a nearly exhausted battery
A RFIT message indicates the battery voltage is too low.

SPEED WINDOW MESSAGES

PASS: PASS in the speed windows indicates the unit has just passed self-test.
FAIL: FAIL in the speed windows indicates the unit has just failed self-test. Speed readings are inhibited. Remove the unit from service and repair. FAIL will remain on the display until reset by being powered off.

MESSAGE WINDOW MESSAGES

RFIT: An RFIT message indicates the presence of an interfering signal. Operation is inhibited during an RFIT indication
MENU: A MENU message displayed in the message window after the MENU key is pressed and indicates that the radar is in MENU mode
TEST: A TEST message indicates that a test sequence is in process
FAWY: A FAWY showing in the message window indicates that the radar is set to track targets moving away from the radar
FCLO: A FCLO showing in the message window indicates that the radar is set to track targets closing on the radar
FBTH: A FBTH indicates that the target direction is set to simultaneously track both closing and away targets
LOCK: A LOCK message indicates a strong target has been locked. The LOCK message will alternate with the operating mode in the message window
FORK: A FORK message indicates that the radar is in fork mode. The FORK message will alternate with the operating mode in the message window

SWITCH DEFINITION

TRIGGER: Press the trigger to transmit and release the trigger for hold. A push (to transmit) push (to hold) operation is optional. The trigger can also be used in stopwatch mode to perform the start/stop function.
MENU: MENU is used to enter the operator menu
STA/MOV: STA/MOV is for expansion and is not used
▲TEST: ▲ sets distance in stopwatch mode and increments settings in the operator menu. TEST performs a diagnostic check on the radar.
LIGHT/▼: LIGHT switches the back light on and off. ▼ sets distance in stopwatch mode and decrements settings in the operator menu.
LOCK/REL: LOCK/REL is used to LOCK and RELEASE strong speed targets
BEITH: This key is used to select target direction
POWER: POWER toggles the main power ON and Off.