

DISTANCE MEASURING INSTRUMENT

NITESTAR[®]

DMI (Distance Measuring Instrument)

NS-50

NS-60 (Adds RS-232 connection for extended memory)

DATA COLLECTION

RECORD ACCURATE DISTANCES
and SURVEY COORDINATES FOR
RELIABLE MEASUREMENTS



SIZE: 7.5 in x 2.25 in x 0.88 in
(190.5 mm x 57.15 mm x 22.5 mm)



The Nitestar's Survey Data Management software (SDM) provides a customizable interface to increase efficiency for asset management tasks.

Optional GPS Available (NS-60 only)

- Fully Integrated GPS Receiver with Smart Antenna
- Data Integration into the Survey Data Management Software
- Magnetic Base Antenna for External Mounting

FEATURES

- ▶ Distance (Ft, Mi, Km)
- ▶ Memory / Event Code
- ▶ Interval Distance
- ▶ Bi-Directional Count (up/down)
- ▶ Periodic Distance Interval
- ▶ Optional GPS Coordinates
- ▶ SDM[®] Software

OPERATION

The NITESTAR[®] DMI is designed to make distance measuring easy. Accurate measurements for 911 addressing are recorded from the comfort of your vehicle. The Nitestar has many features including serial connection to a laptop or printer that can aid data collection needs. Optional Survey Data Management (SDM) software and GPS receiver records coordinates for surveying and mapping data.

APPLICATIONS

- ▶ Roadway & Railway Lengths
- ▶ Paint Line Lengths
- ▶ Guide Rail Lengths
- ▶ Pole or Sign Spacing
- ▶ Truck, Bus or Postal Routes
- ▶ E-911 Address Mapping
- ▶ Accident Reconstruction
- ▶ Cable or Pipeline Lengths



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Quixote
Transportation Technologies, Inc.

NITESTAR® SPECIFICATIONS

Power:	9 to 16 VDC, negative ground 90 mA @ 12 VDC (max)
Accuracy:	± 1 foot per mile (± 1 meter per kilometer)
Resolution:	± 1 foot (± 1 meter)
Display:	Back lighted liquid crystal panel (3 brightness level adjustments and off), 6-digit distance (Mi, ft, Km), 4-digit interval distance, 3-digit speed (MPH, Kph, F/S)
Indicators:	Up/down arrow, AEC, Code, Mark, Count hold, Display hold, Calibrate
Keypad:	LED back lighted (3 brightness level adjustments and off), 15 key, touch-tell silicon rubber
Speed:	Display vehicle speed 0-199 (MPH, Kph, F/S)
Count:	Bi-directional up/down
Calibration:	Four vehicle memory
Auto Distance Conversion:	Feet, miles, kilometers
Test Mode:	Complete system check, simulates distance count
Count Hold:	Stops distance count
Display Hold:	Freeze display count without loss of accumulating distance
Pre-Distance:	Capability of starting at a known distance
Output Pulse:	0-5 VDC (Low Going High)
(PDI) Type:	High going low, Flip flop, Output pulse activate (distance)
(PDI) Setting:	Duration (distance, time)

Speed Trap:	Operation for computing observed vehicle's speed
Automatic Error Correction:	Compensates for sensor error due to vehicle's dynamic motion
Material Calculation:	Area, volume, tonnage, cost
Interval Counts:	Elapsed distance from last mark, * Begin / End accumulation
Memory:	0-99 memory locations, * Unlimited with laptop computer use only, * 20 preset plain language events
Memory Retention:	Non-volatile type, > 50 year (lifetime) retention
Printer Interface:	Serial, 300-9600 baud rate. (selectable)
Communications:	* RS-232 in/out, selectable baud rate (300-600-1200-2400-4800-9600)
Input Channel:	(1) 8 bit 0-5 VDC analog, (1) 0-5 VDC digital
Output Channel:	(1) 0-5 VDC digital
Case:	High heat resistive ABS
Dimensions:	7.5 in x 2.25 in x 0.88 in (190.5 mm x 57.15 mm x 22.5 mm)
Weight:	0.42 lbs (190.5 g)
Operating Temperature:	32°F to 158°F (0°C to 70°C)
Instrument Warranty:	One year parts and labor 90 days on install and sensor kit

* Model NS-60 Only



NITESTAR APPLICATION: 9-1-1 ADDRESSING

Included within the Nitestar's auxiliary programs is a user-friendly EMERGENCY 911 ADDRESSING PROGRAM used to accurately mark the location of a home or business. This is especially useful to police, ambulance, fire stations and other first responders who need accurate distance measurements regardless of terrain or GPS signal acquisition.

ASK ABOUT THE RANGE TRACKER "PASSING / NO PASSING" ZONE DETERMINATION SYSTEM



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