PEEK Intersection

M3000E™
NEMA Master
Traffic Signal Master Controller

Traffic Control

The M3000E System Master is part of a global range of Traffic Signal Control equipment developed by Peek Traffic to meet the differing demands of governments, traffic authorities and vehicle users world-wide.

The M3000E is an enhanced version of the Peek M3000 System Master using similar hardware to the well-proven Peek 3000E Series Advanced NEMA Traffic Controller.

The M3000E is designed as an on-street arterial System Master that can co-ordinate up to 64 intersection controllers connected by telemetry. It also retrieves event, alarm and diagnostic data from the controllers.

In operation, the M3000E selects the traffic plan to be run in each controller on a zonewide basis to optimize traffic flow. Four separate zones can be specified with up to 30 controllers in each zone. The Master can provide both Time / Date based plan selection and Traffic Responsive operation.

The M3000E can be connected to a PC based central system such as CLMATS, allowing an operator to view system data and performance and change program data. Alternatively, controllers can be programmed locally at the traffic cabinet or remotely via a laptop or notebook computer that is temporarily connected to the M3000E.

The M3000E coordinates and monitors multiple intersections, providing the user with more efficient traffic flow, and reduced equipment downtime.

Features

- 64 intersections
- 4 control zones (30 intersections per zone)
- 128 sensors per master (48 per zone/intersection)
- Compatible with Peek's 3000E Series TS-1 /TS-2 and LMD-9200 Controllers
- Compatible with Peek's IQ Central® central system software
- Full event logging
- Full time communications diagnostics
- Security password
- Traffic responsive operation
- Time of day operation
- Cross linking capability within zones

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Specifications

Property	Description
Dimensions	10.8"H x 13.7"W x 8.9"D (278mm x 350mm x 225mm)
Weight	11.5 pounds (5.2 kg)
Temperature range	-30°F to +165°F (-34°C to +74°C)
Power	• 89 to 135 VAC • 57 to 63 Hz • 20 Watts
Communications	Central to Master (CRC on all comms) • 19.2k baud via EIA-232 • Dial-up telephone line • Narrow-band radio • Spread-spectrum radio • Fiber optic backbone Local to Master • 19.2k baud via EIA-232 • Integral DSP modem (1200 / 9600 baud) • Integral fiber optic interface (Multi-mode at 850nm) • Narrow-band radio (19.2k baud) • Spread-spectrum radio (19.2k baud) • Mixed system with radio, wire, and fiber

Additional Features

Property	Description
Calendar scheduler	• 99 year clock with 300 events • 15 base weeks • 32 day plans • 50 exception days • Cycle, offset and split by time of day • Programmable Daylight Saving Time
Traffic responsive	• Unique calculations for each zone • Volume, occupancy, density, speed and concentration parameters • Exponential smoothing • 4 queue and 4 occupancy channels per zone • Sampling periods by cycles or minutes • Pattern cross-referencing
Super twist LCD	320 character (8 row x 40 column) adjustable contrast and timed backlight that automatically illuminates when any key is depressed. The LCD supports 64 x 240 dots for graphics.
Smart keyboard	Audible (selectable) and tactile feedback, group copy, context sensitive help and a user-customized menu to eliminate unnecessary menu items.
Printer, computer Remote control	EIA-232 (Port 2) Data Terminal Equipment (DTE) port for printer, unit to unit data transfer, upload and download with personal computer, dial-up modem, and radio

PEEK
A Signal Group Company
Peek Traffic Corporation
2906 Corporate Way, Palmetto, FL 34221
Phone: (941) 845-1200 • Fax: (941) 365-0837

www.peektraffic.com

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