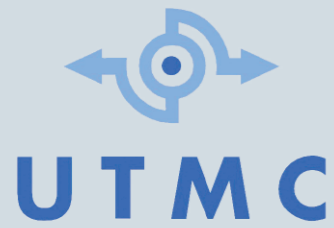




**Elektra**  
variable message sign family

Traffic Solutions

**SIEMENS**



- UTMC compliant car park guidance and driver information signs
- 100, 160, 240 and 320mm character sizes
- Multi-pole and monopole installation
- Flexible communications options
- Single or dual colour displays
- Dynamic car park direction arrows
- EN12966 approved
- Advanced fault monitoring
- Web browser user interface

Siemens Elektra variable message sign family provides highly visible and concise information to drivers, enabling them to be better informed, reducing traffic congestion and journey times while lowering pollution levels from queuing traffic. Elektra offers a highly configurable, adaptable and flexible solution to meet the requirements of variable message signs in a wide variety of different situations.

#### Elektra benefits

The Elektra family of variable message signs brings a number of key benefits to all styles of installation, whether car park, traffic information or for other information applications. Approved to the latest EN12966 specification for environmental and optical performance, Elektra is compatible with Siemens Comet and other UTMC traffic management systems.

Elektra offers a range of different display sizes from 100mm characters up to 320mm characters with dual colour red/green displays in 100mm and 160mm sizes for use with car park information signs. The use of modern, surface mount technology ensures accurate alignment of display modules along with the latest low power control electronics to minimise the power consumption of the sign when installed. All signs in the Elektra family offer monitoring of individual pixels across the entire display with intelligent character displays allowing easy plug and play configuration for engineers, minimising the time required on site for any maintenance activities.

A new range of enclosures offers easy access for maintenance along with flexible mounting options, including traditional multi pole installation and a range of monopole cantilevered structures. Siemens Elektra includes as standard enclosures sealed to IP55 with integral work positioning attachments for safe working during installation, commission and maintenance.

Integral to the Elektra signs is the proven Siemens Gemini outstation processor with full support for Siemens Outstation Support Server (OSS) to manage Elektra VMS alongside existing Gemini UTMC outstations. The integration of the Gemini outstation into Elektra provides commonality of spares and reduces the need for engineers to carry a wide range of spare parts. Maintenance and diagnostics are easily accessed using a web browser display which can also be accessed remotely from the instation to provide valuable additional information to maintenance engineers.

#### Driver information signs

Driver information signs are available in a variety of different character sizes and line lengths, and can be supplied with or without flashing LED lanterns. The front fascias can be completed with a variety of different finishes to suit local conditions and provide a sympathetic addition to the existing street scene.

#### Car park guidance signs

Car park signs can be supplied with multiples of 3 character modules, typically arranged in rows of 6 or 12 characters with each car park or zone being represented by a single line. Elektra offers a variety of different character options, including bi-colour displays in red and green as well as variable direction arrows to provide additional information about alternative parking locations using dynamic guidance.

#### Control

Siemens Elektra supports the latest version of the UTMC specification TS004.005:2009 and can be controlled by any UTMC compliant instation supporting this interface. For a complete, integrated UTMC solution from Siemens, Elektra can be implemented with

Siemens Comet UTMC traffic management system and Gemini UTMC car park outstations where necessary. This enables fully automatic car park information and guidance, along with traffic information displays providing real time updates to drivers on current road conditions.

#### Communications

Elektra provides a flexible hardware design which allows the straightforward integration of communications devices directly within the sign enclosure, minimising the requirement for additional street furniture. Options available with Elektra for UTMC communications include ethernet, fibre, DSL, ADSL and GRPS modems. Other options supporting legacy protocols and communication devices are also available to provide easy upgrades and additions to existing systems.

#### Installation and maintenance

Elektra is available with a flexible range of installation options with traditional multi-pole installations complemented by a range of monopole and cantilevered sign structures. Cantilevered sign structures can also be supplied with



elevation adjustment to accommodate specific installation requirements with minimum effort. With integral work positioning attachments and wide, rear access doors ongoing maintenance and support of Elektra VMS is both straightforward and safe for engineers.

#### Total solution

Siemens provides customers with a total solution for variable message sign system including all civil engineering works, traffic management, installation and commissioning. For large projects, we can project manage the entire process using our own qualified Siemens project managers who oversee all aspects of the project, including where necessary sub-contractors and third parties, through to successful completion.

## Technical Specification

### Electrical

Input power supply:

- Transformer: 230V AC (+10% -13%)
- SMPSU 100V-263V AC (optional where power-factor-correction is required)
- Supply frequency: 50/60Hz

### Power consumption (typical)

#### Car Park Sign

Control electronics (Gemini): 8W

Display (per character module)

- 100/160mm Amber:
  - 1.25W per character
- 100/160mm Red/Green:
  - 1.5W per character (Red)
  - 3W per character (Green)
- 240mm Amber:
  - 5W per character

Heater: Typically 250W dependent upon enclosure size

#### Traffic Information Sign

Control electronics (Gemini): 8W

Display (per character module)

- 100/160mm Amber: 1.25W per character
- 240mm Amber: 5W per character
- 320mm Amber: 7W per character

Lanterns (Amber LED): 16.7W

Heaters: Up to 500W dependent upon enclosure size

### Display options for car park or traffic information variants

- Character sizes: 100, 160, 240mm and 320mm
- LED colour: Amber, Red/Green (100 & 160mm only)
- Character information: 3, 6, 9, 12, 15 or 18 character line lengths
- Rows: Up to five (5), max. 90 characters

## Environmental

- Approved to EN12966, EN50293
- Temperature range: -15°C to +60°C
- Humidity: 0 to 100% condensing
- Protection: IP55

## Communications

- Ethernet, fibre, GPRS, ADSL and wireless network options available
- UTMC compliant communications
- Siemens UVMS communications

## Additional Information

- LED open / short circuit monitoring
- Remote fault diagnosis and software updating

**For further information, please contact:**  
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