

Elintel

Road lighting technology
LED lighting systems

**Dynamic LED
display panels**



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ISO 9001:2008

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DYNAMIC DISPLAY PANEL TYPE DIT



Dynamic LED display panel is designed to display text (complete set of WIN1251 characters) and graphic data (4 colors). The display may be changed either remotely or locally by special program with the use of ETHERNET, GSM \ GPRS \ CSD, USB communication channels. The display panel may be installed on main highways, ring roads, packing and customs areas.

Display panels are available in 2 versions: DIT-5, DIT-3.

Overall dimensions, mm:

- DIT-5: 8 660 x 2 170 x 175
- DIT-3: 5 200 x 2 170 x 175

Display panel composition:

- Text module of 4 (DIT-5) and 2 (DIT-3) sections.
- Graphics module.
- Central control and communication cabinet.
- Electrical cabinet for 220 V power supply circuit.
- Junction box RS 485 for connection of CRS type characters (controllable road signs).

Operating modes:

- Visual display of text and graphic data as text message and graphic image. Text message format: 3 lines by 24 characters (DIT-5) or 12 characters (DIT-3) per line.
- Use of one or two text pages with switching time from 5 to 255 seconds.
- Flickering highlighting of any text fragment.
- Brightness change modes:
 - forced, programmable;
 - automatic, day-night;
 - automatic, lighting dependent.
- Text and graphics modules condition test.
- Text and graphics module download/new data reading.
- Storage of 12 reserve text messages with display time indication in text module. Storage of one general DIT reset message.
- Transfer of DIT error alarm messages to remote computer.



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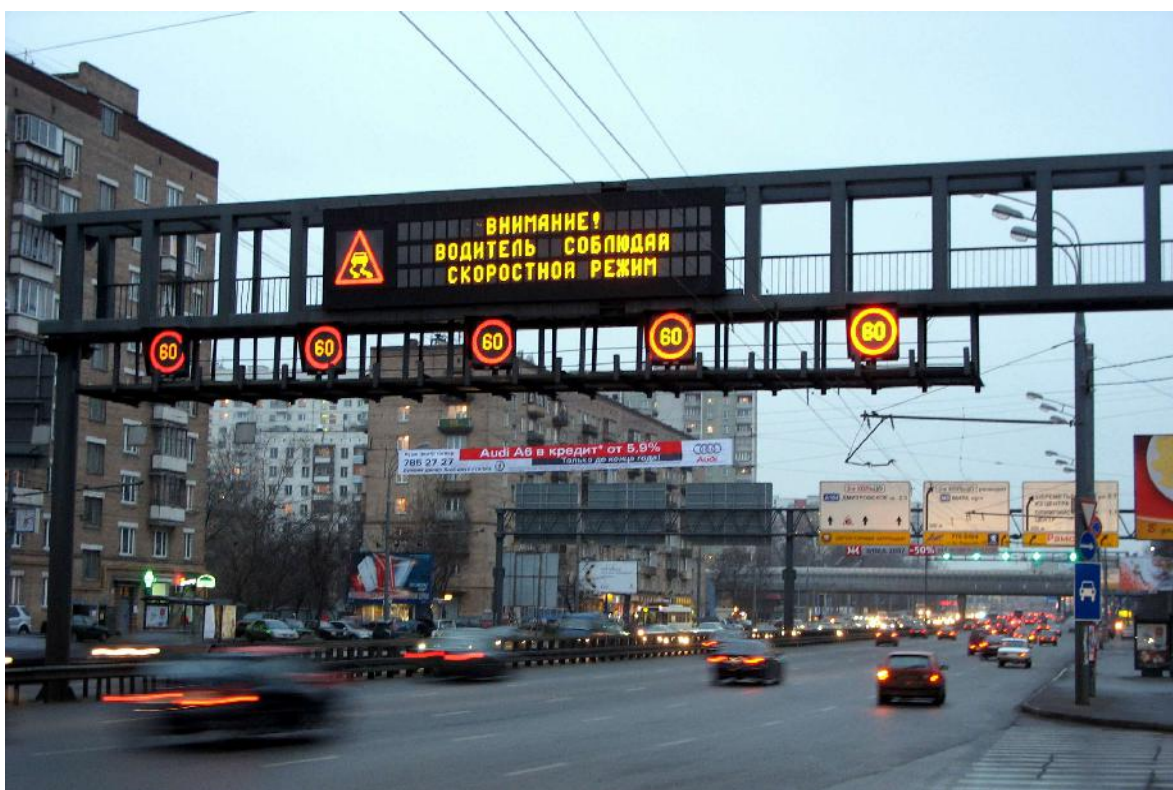
ЕС.С.О.02.01.000526-11

Communication channels:

- Ethernet by IEEE 802.3 10BASE-T \IEEE 802.3u 100BASE-TX Fast standard
- GSM - GPRS\CSD\SMS modes
- USB

DIT specifications

Specifications	Value
Electric shock protection class	I
Protection degree against external factors	IP54
Power supply voltage, V	220V +10%-15%
Power supply voltage frequency, Hz	50 ± 1%
Operating temperature range:	- 45°C - +50°C
Relative humidity at 25 ° C	100%
Power consumption, kW, not more	
DIT-3:	1.8
DIT-5:	3
Brightness cd / m ²	12,500
Continuous operation time	unlimited
Mass, kg, not more	600
Warranty period, years	1





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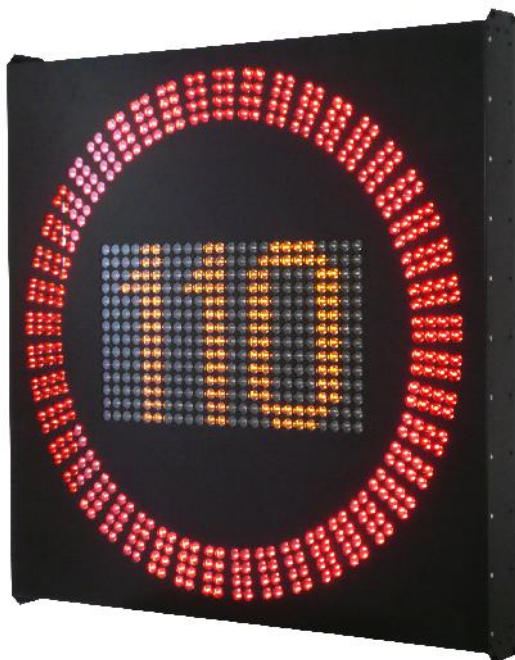
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CONTROLLABLE ROAD SIGN (CRS) "SPEED LIMIT"



Controllable road sign (CRS) "Speed limit" is intended to advise road users on speed limit.
Displayed speed limit range - from 10 km/h to 190 km/h.
Speed increment- 10 km/h.
The sign is housed in undismountable metal sealed body to impede unauthorized access.

Overall dimensions, mm:

- 980x980x107

CRS signs are available in five versions depending on communication device:

- **CRS -1 – motherboard** - controlled by RS485 interface shall be used as independent RS485 network unit or as DIT part.
- **CRS-2 – modem** - 220V supply control to one of 5 inputs (five fixed user set speed values)
- **CRS-3 – GSM/GPRS modem** - cellular communication control (GSM / GPRS)
- **CRS-4 – LAN modem** - LAN or VAN control
- **CRS-5 – GSM/GPRS/LAN modem** - LAN, VAN or cellular communication control (GSM / GPRS)



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Operating modes:

1. Visual display of loaded data as road sign 3.24 graphic image "Speed limit" (GOST R 52290).
2. download of required speed limit data and display brightness
3. Reading of downloaded data (except CRS-2 design).
4. Sign blanking.
5. Glow brightness change:
 - under software control (forced);
 - day-night mode switch (automatic), except CRS-1 design;
 - depending on lighting conditions (automatic).

CRS specifications

Specifications	Value
Protection degree against external factors	IP54
Operating temperature range:	- 45°C - +50°C
Relative humidity at 25 ° C	100%
Power supply voltage, V	220V +10%-15%
Power supply voltage frequency, Hz	50 ± 1%
Power consumption, W, not more	60
Brightness cd / m ²	12,500
Range of displayed speed limits	from 10 km / h to 190 km / h
Speed setting increment	10 km / h
Continuous operation time	unlimited
Overall dimensions, mm:	980x980x107
Mass, kg, not more	35
Warranty period, years	3





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STATIC WEIGHING DISPLAY PANEL (SWD)



Static weighing display panel (SWD) is used as part of weighing platform. Static weighing display panel together with weight program is designed for numeric display of vehicle axial load and total mass, license plates and revealed deviations.

Overall dimensions, mm:

- 6 000 x 1 250 x 98

Product parts:

- 8 five digit seven-segment red display to indicate vehicle gross weight and weight distribution by axles.
- graphic red display of vehicle license plate.
- data display panel:
 - green glow with fixed word "NO"
 - red glow with fixed word "YES"
- single-digit seven-segment red glow display to indicate window number for documents arrangement .

Display modes:

- Stand-alone display mode, SWD works with the use of downloaded output data independently of control program.
- Supervisory control mode is implemented by "SWD" program, installed on remote computer using Ethernet communication channel.

Communication channels:

- Ethernet according to IEEE 802.3 10BASE-T \IEEE 802.3u 100BASE-TX Fast standard
- USB



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SWD performs the following functions in stand-alone mode:

- Downloaded data display.
- Glow brightness change by in-built real-time clock with regard to sunrise and sunset time for preset latitude.
- Supervisory control mode.

The following command groups are implemented in supervisory control mode:

- Control commands
- Service commands

Control command group includes the following commands:

- New data loading for each SWD component separately and in random combination.
- Glow brightness change for each SWD component separately and in random combination.
- Testing. The command is used for communication control with SWD and to read its components conditions.

Service commands group includes the following commands:

- Real time clock (RTC) setting. RTC time writing / reading. RTC is used for automatic brightness display change.
- Automatic brightness control enable / disable
- Download of "top" 128 CG characters to display other code pages.
- Switching of "top" 128 CG characters to built-in character generator with code page WIN1251 or downloaded character generator to display other code pages.
- Ethernet module configuration commands.

SWD specifications

Specifications	Value
Electric shock protection class	I
Protection degree against external factors	IP54
Power supply voltage, V	220V +10%-15%
Power supply voltage frequency, Hz	50 ± 1%
Operating temperature range:	- 45°C - +50°C
Relative humidity at 25 ° C	100%
Power consumption, kW, not more	0.3
Brightness cd / m ²	12,500
Continuous operation time	unlimited
Overall dimensions, mm:	6 000 x 1 250 x 98
Mass, kg, not more	450
Warranty period, years	3



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DYNAMIC WEIGHING DISPLAY PANEL (DWD)



Dynamic weighing display panel (DWD) is an integral part of scale platforms, intended to display dynamic weighing data.

Dynamic weighing display panel (DWD) is a section with installed LED emitter units and light-emitting diode board and adapter boards to ensure compatibility of LED emitters with traffic controllers and to provide protection from microsecond high energy pulse interference. Fixing holes for M10 bolts are provided at right and left section sides.

Terminal block is mounted inside back cover box for product connection to the circuit.

DWD specifications

Specifications	Value
Electric shock protection class	I
Protection degree against external factors	IP54
Power supply voltage, V	220V +10%-15%
Power supply voltage frequency, Hz	50 ± 1%
Operating temperature range:	- 60°C - +60°C
Relative humidity at 25 ° C	100%
Power consumption, W, not more	90
Brightness cd / m ²	12,500
Continuous operation time	unlimited
Overall dimensions, mm:	1 680 x 1 230 x 166
Mass, kg, not more	50
Warranty period, years	3

Our experts may develop and manufacture display panels according to your specifications!