	ELEN, s.r.o., Lubochnianska 16, 080 06 Lubotice, Slovakia		
	DATASHEET		Datasheet No.:
Product name	Textual displays		14012301
Type / Model	**TDU 76-10/144 RG L20 230AC**		
Order code	*ZZ0678*	Date of last revision:	29.01.2014

TDU 76-10/144 RG L20 230AC series alphanumeric displays are programmable electronic devices for displaying static or moving textual information.

These displays are manufactured with high-brightness AlInGaP dot matrix LED modules, which ensure their good displaying properties and long lifetime. Their mechanical design makes them suitable to be used in industrial indoor environments with standard artificial ambient light conditions.
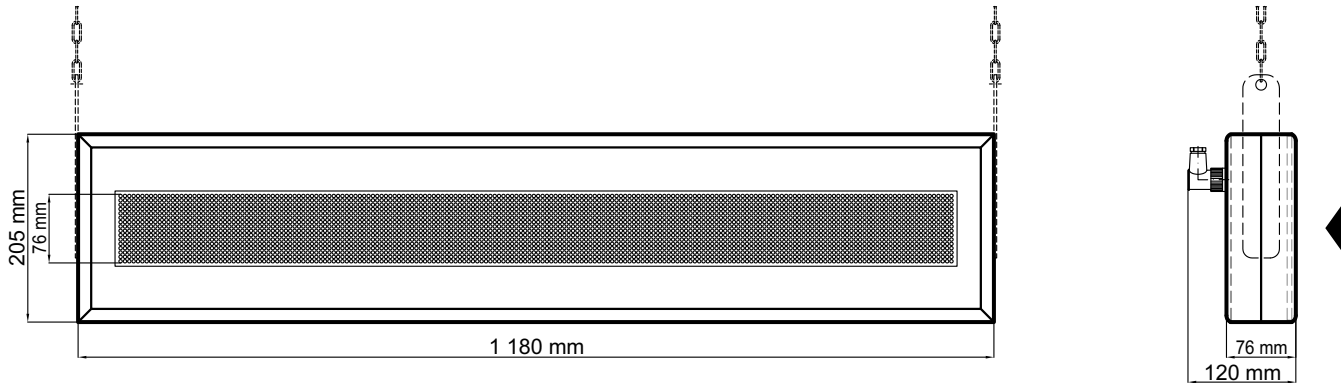
Software PC application for creating and programming text messages into display, or communication protocol description for programming the PLC control unit is also included with delivery.
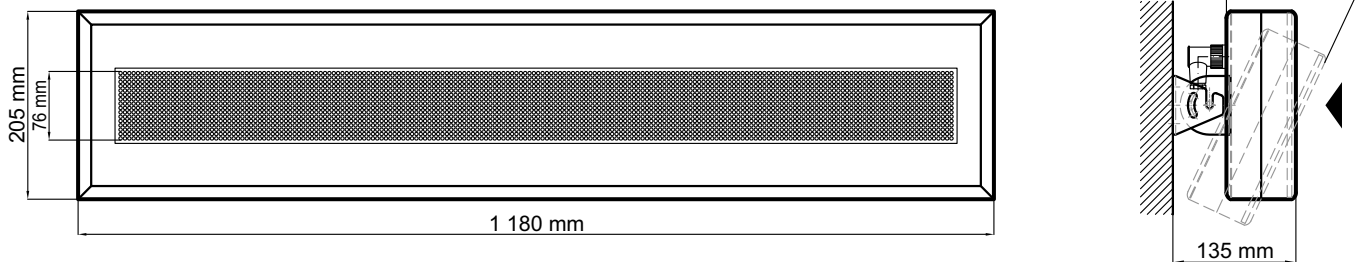
Technical Specifications

Character height	**76 mm** (also depends on font height used)
Readability range	about 40 m max.
Number of sides	1
Number of lines	1
Row display matrix	10 x 144 dots
Number of characters	20 max.
Color of displaying elements	red, green and orange (by combination)
Type of displaying elements	high-brightness AlInGaP dot matrix LED modules, suitable for indoor light conditions
Frame	external aesthetic aluminum frame platinum matt or gray color, steel back panel with black powder paint coating
Front cover	brown tinted plexi-glass, 3 mm thick (not anti-reflective)
Class of protection	IP 20
Communication interface	serial RS232, RS485 with galvanic separation, Ethernet TCP/IP, Profibus DP, LonWorks® FTT-10, parallel, and others on request
Communication protocol	ELEN, Profibus DP, TCP/IP, LonTalk, and others on request
Data / mains connector	industrial grade, IP 65, type Binder, D-Sub 9-pin or RJ45 (depends on communication interface)
Power supply	230 VAC, 50 Hz (others on request, e.g. 24 VDC, ...)
Dimensions	1 180 mm x 205 mm x 76 mm (see dimensional drawing)
Working temperature	-20°C ÷ +40°C
Mounting	from ceiling, or wall mounting on a tilting console

Dimensional drawing

Mounting from the top ceiling

205 mm
76 mm
1 180 mm
76 mm
120 mm

Mounting on the wall

205 mm
76 mm
1 180 mm
0 – 25°
135 mm

Options of communication interfaces (others on request)

	Type of connector (industrial grade, IP 65)
RS485, or RS232	Binder
Ethernet TCP/IP	RJ45
Profibus DP	D-Sub 9-pin
Service programming cable RS232	Binder – D-Sub 9-pin