

# ON-BOARD CONTROL INTERFACE ICU 602

## ON-BOARD PASSENGER INFORMATION SYSTEM



### FEATURES

- Alphanumeric keyboard with user-friendly user interface and backlighting
- Standard interfaces: RS485, Digital I/O, RS232, USB, IBIS-Slave, **GPS**, Audio, Ethernet, CAN-Bus
- Optional interfaces: IBIS-Master, Monobus, RS485



### THE ALL IN ONE SOLUTION

The ICU602 control unit processes all protocols and information for all Luminator displays, including destination display, route number and stop information - no matter which generation of device is in use.

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Automatic messages such as "Next stop" displays and voice announcements are controlled by the odometer or (optionally) triggered by GPS. Driver announcements are possible inside and outside the vehicle - e.g. for passengers waiting at a stop.

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The control unit fits into any standard radio slot (ISO 7736) and is equipped for use under tough conditions with an IP-classified front with dust and water protection. Optionally, the rear side can also be IP-classified.

In addition to GPS reception, ICU602 has an Ethernet option and the option of connecting to an on-board gateway. Using the network connection, the back office can send current information or software updates of the displays and devices on-board.

Diagnostic information is automatically sent to the control center allowing for easy and efficiency troubleshooting and maintenance.

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## ON-BOARD PASSENGER INFORMATIONS SYSTEM

### TECHNICAL DATA

<b>Order Information</b>		
LTG Sweden AB	CU622102-00x 2xRS485+Audio+GPS+Ethernet+IBIS-Slave CU622102-01x 2xRS485+Audio+GPS+Ethernet +IBIS-Slave with MAN adapter cable CU621102-000 2xRS485+Audio+GPS+Ethernet+IBIS-Master	
<b>Display (Control Unit)</b>		
Technology	LCD	
Display Size	106 mm (W) X 27 mm (H) - viewing display area	
Resolution	64 pixels x 256 pixels	
<b>Computer</b>		
Processor	ARM 7	
Memory	256 MB	
RAM	8 MB	
<b>Software</b>		
Applications	MIE: target texts, configuration and acoustically files MAW: update and diagnostics	
Update	USB IP Ethernet via MAW	
<b>Electrical Properties</b>		
17.5	Operating Voltage	24 VDC (9 - 36 VDC)
	Power Consumption	Max 0.2 A at 24VDC
	Current Consumption	200mA
<b>Interfaces</b>		
17.5	12 VDC In	1x (Ilag 7p)
	24 VDC In	1x (Ilag 7p)
	WLAN	N/A
	CAN	1x (Ilag 30p)
	Digital In	1 speedometer, 2 active high (1 analog), 3 active low (Ilag 30p)
	Digital Out	2x (relay). (Ilag 30p)
	Alarm In	Via digital in
	Alarm Out	Via digital out
	Vehicle Signal	Via digital in
	Car Hold Signal	Via digital in
	Ethernet	1x (m12 -D)
	IBIS (VDV 300)	1x Ilag (option)
	IBIS slave (VDV 300)	1x Ilag
	MONO	1x Ilag (option)
	RS232	1x Ilag 30 (standard)
	RS485	2x Ilag 7 (Standard 2 , +1 Optional)
	USB	1x
	Audio Out	2 channel (line/mic) (Ilag 30)
<b>Mechanical properties</b>		
	Weight	620 g
	Dimensions	178 mm x 115 mm x 50mm
	Color	Black
	Mounting	Radio slot

17.10.1

#### Disclaimer

Features and specifications are subject to change without notice. Properties relating to the Goods contained in this document do not constitute the product specifications but typical values for purposes of description only. January 2021

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### TECHNICAL DATA

17.5

Environment	
Operating Temperature	- 25°C to 70°C
Ingress Protection	IP67 front, IP30 back
Cooling	Passive
Standards	
DIN EN 50121-3-2	x
DIN EN 50155	x
ECE-R10	x
ECE-R118	x
Directive 2006/28/EC	x
Directive 95/28/EC	x
VDV-300	x (option)
Approvals	
ECE-R10 (EMV)	04178
E-mark	4178
CE	x
Drawings	
2D Drawing	CU622xxx-000

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