SIEMENS



Series B

Central Communication Unit OCI611...

for LPB/BSB plants

Central communication unit for the remote operation and supervision of LPB plants with a maximum of 16 LPB/BSB units

Use	
Plant	The central communication unit is used in heating plants with LPB/BSB-compatible units that are parameterized and supervised from a central operating station. The operating station is a PC with the plant operating software ACS7 Alarm messages can also be delivered to SMS receivers, fax machines, pagers or e-mail receivers.
Buildings	Typical applications: • School buildings • Multifamily houses • Municipal buildings • Administrative buildings
Operators	 Such plants are operated by: Municipal administrations Installation companies School administrations Real estate companies

The central communication unit

- · detects the connected units through its automatic search run
- makes possible the direct access to the units via an operating station, connected either directly or via modem
- monitors the units and 2 potential-free digital inputs
- delivers alarms to a PC, either directly or via modem
- delivers alarms via modem to SMS receivers, fax machines*, pagers and e-mail receivers* (software version 2.0 or higher)
- has a time switch function for alarms
- * possible only with GSM modem, depending on the telephone provider

Type summary

Type of unit	Type reference or part no.
Central communication unit for 1 unit	OCI611.01
Central communication unit for 5 units	OCI611.05
Central communication unit for 16 units	OCI611.16
Terminal covers	74 111 0028 0

Ordering and delivery

When ordering, please give the type reference. Terminal covers must be ordered as separate items.

Delivery of the terminal covers includes the covers for both the mains and low voltage side and the associated cable ties.

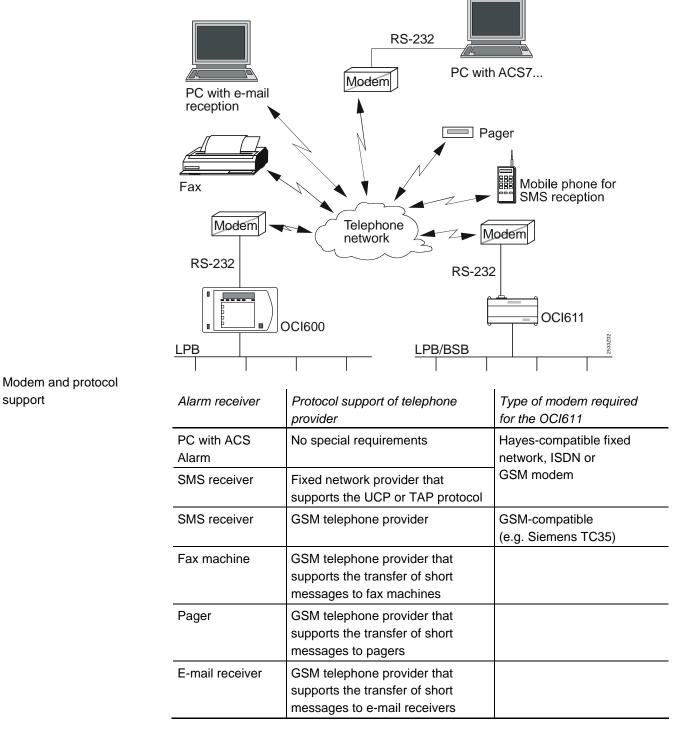
Equipment combinations

LPB/BSB units	Either LPB or BSB devices may be connected to the LPB/BSB interface for the central communication unit. Mixing the two is not allowed. The following devices with LPB- or BSB connection are supported: • Heating controllers RVL4, RVP3, RVP5, RVA, RVS • District heating controllers RVD2 • Ventilation controllers RWI65* • Room units QAA • HMI AVS3 • Extension modules AVS7 • Boiler Management Units LMU (only via LPB) * no longer available		
Software	 A PC with the plant operating software ACS7 can be connected as follows: Directly or via modem to the RS-232 port Via service interface OCI700 to the LPB/BSB interface 		
LPB	The following pieces of documentation contain detailed <i>Type of document</i> Data Sheet "Basic System Data" Data Sheet "Basic Engineering Data" Basic Documentation "System Engineering" (OEM)	d information about the LPB: <i>Classification number</i> N2030 N2032 P2370	
BSB 2/8	The user's guides for BSB devices contain more detail	ed information.	

Communication

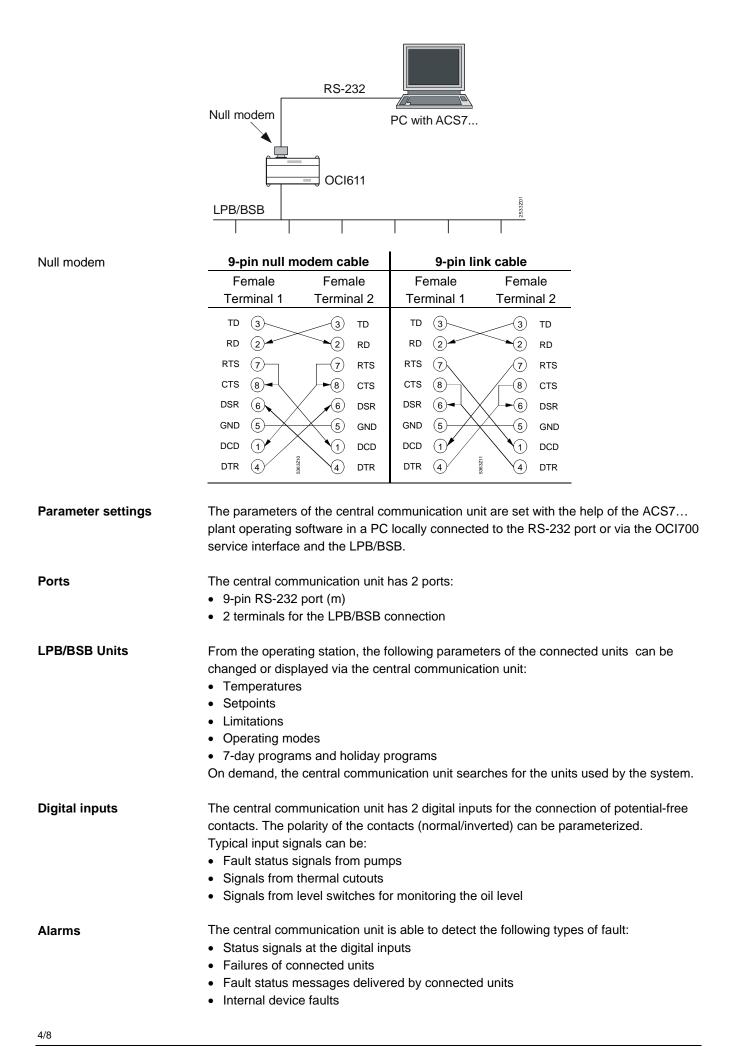
Telephone connection

In the case of a connection via the telephone network, the combinations permitted according to the table below must be considered.



Telephone connection

In the case of a connection via the telephone network, a Hayes-compatible modem is required on both sides.



For each alarm source (central communication unit, digital inputs, LPB/BSB), it is possible to select whether its alarms shall be delivered only when they occur, or when they occur and disappear.

To indicate the plant status at regular intervals, a system report can be generated. Fault status messages can be delivered to a maximum of 2 alarm receivers. The different types of alarm receivers can be combined randomly.

The central communication unit offers the parameter setting choices required to pass short messages to fax machines, pagers or e-mail receivers (only with GSM modem). The precise settings depend on the relevant telephone provider and are prescribed by the provider.

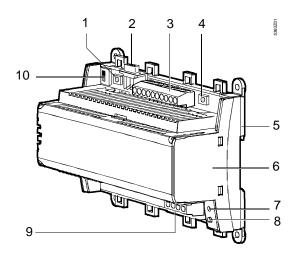
When identified, the central communication unit delivers the alarms immediately to the alarm receivers.

However, after communication via the telephone network, the central communication unit considers a call restriction of at least one minute which can be parameterized. If the central communication unit cannot deliver an alarm, it repeats the alarm at the parameterized interval until it is successfully delivered.

Mechanical design

Makeup

The central communication unit consists of base, housing and printed circuit board with the lateral connection terminals (top: LPB/BSB and digital inputs; bottom: mains connection). The unit also features 2 LEDs, 2 buttons, one RS-232 selector and one RS-232 socket.



- Modem reset button 1
- RS-232 socket 2
- Connection terminals (LPB/BSB and digital inputs) 3
- 4 LPB/BSB button
- 5 Base

- Housing LED for operation 7
- 8 LED for alarms
- 9 Connection terminals (mains)
- 10 RS-232 selector

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Terminal covers



Terminal covers are available as an accessory item. They protect the terminals against physical contact and dirt. The terminal covers are mandatory when the unit is mounted outside the control panel or cabinet. In addition, the terminal cover on the mains voltage side must be secured with the 2 cable ties provided. They are supplied together with the terminal covers.

The 2 LEDs are also visible when the terminal cover is fitted.

Connection terminals

The connection terminals are ready mounted. To avoid false wiring, the terminals for the mains voltage connection (AC 230 V) are clearly separated from the other terminals. All terminals are arranged such that, in normal situations, incoming and outgoing wires can be connected with no crossings.

LED for operation	 The green LED indicates the operating state of the unit: LED lit: mains voltage present LED flashes: communication via LPB and/or RS-232, indication of the number of units
LED for alarms	 The red LED shows the alarm status of the unit: LED dark: no fault and no alarm present LED lit: fault of one or several LPB units present LED flashes: internal fault of the central communication unit or signal at the digital inputs
RS-232 selector	This selector is used to select whether the central communication unit is to be con- nected to the RS-232 via modem or directly to the PC.
LPB/BSB button	The LPB/BSB button serves for generating the device list and for indicating the number of units contained on the list.
Modem reset button	The modem reset button is used for reinitializing the modem. Then, the central commu- nication unit establishes a connection to the parameterized alarm receivers and deliv- ers a status report.
Mounting notes	
	The central communication unit can be fitted in any position, either on a wall mounting rail or directly on the wall. Please observe:
	 If no protection against electric shock hazard is provided (e.g. in heating rooms, false ceilings or false floors), the use of terminal covers is mandatory. The terminal cover on the mains voltage side must be secured with cable ties If protection against electric shock hazard is ensured (e.g. in control panels or cabinets), the unit may be mounted without terminal covers The heat generated by the unit during operation must be allowed to escape. Adequate circulation of air must therefore be ensured Good accessibility for service staff must be ensured The local regulations for installations must be complied with Mounting instructions are printed on the unit's packaging.

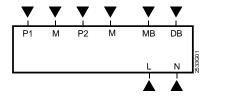
Commissioning notes

- The central communication unit must be commissioned by authorized staff
- The installation instructions supplied with the unit contain detailed information on commissioning
- The parameters of the central communication unit are set with the ACS7... plant operating software and a PC locally connected to the RS-232 port or via the OCI700 service interface and the LPB/BSB.
 - The parameters can be set either beforehand or on site
- The telephone provider and the modem must be selected prior to commissioning, depending on the type of alarm receiver in use
- If a GSM modem is used, it must be ensured that the SIM card
 - permits data communication
 - is not protected by a PIN code

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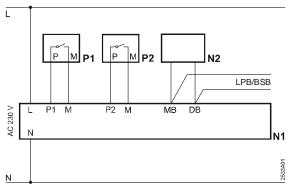
General unit data	Operating voltage	AC 230 V +/-10 %
	Nominal frequency	50/60 Hz
	Power consumption	5 VA
	Digital inputs (P1, P2)	for potential-free contacts
	Perm. ambient temperature	·
	Transport and storage	–25…+70 °C
	Operation	050 °C
	Perm. ambient humidity	class F to IEC 721
	Weight	0.32 kg
	Bus loading number E	50
	Reserve of clock	12 h
Norms and standards	CE conformity to	
	EMC directives	2004/108/EC
	Low voltage directive	2006/95/EC
	Product standard	EN 60950-1
	Electromagnetic compatibility	
	Immunity	EN 61000-6-2
	Emissions	EN 61000-6-3
Degrees of protection	Without terminal covers	IP 20 to EN 60 529
	With terminal covers	IP 30 to EN 60 529
	Safety class	II to EN 60 950-1
LPB/BSB	Туре	2-wire connection, not interchangeable, no
		bus power supply by the OCI611
	Baud rate	4800 Baud
Protocols for the delivery	Connection via fixed network provider	UCP (Universal Computer Protocol)
of short messages (SMS)	Connection via GSM telephone provider	AT+ (extended AT command set)
RS-232 port	Norm	V.24/EIA 232D
	Baud rate	max. 9600 Baud
	Cable length	max. 15 m
	Connector	9-pin, D-sub, male

Connection terminals



DBData LPB/BSBMBGround LPB/BSBL, NOperating voltage AC 230 VMGround for P1, P2P1, P2Digital inputs

Connection diagram

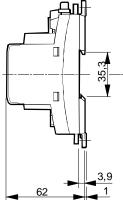


- N1 Central communication unit OCI611...
- N2 LPB/BSB unit (maximum 16, depending on the type of central communication unit used)
- P1, P2 Devices with a potential-free contact output for delivering alarms

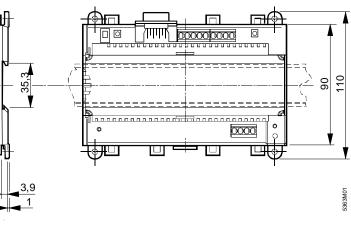
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Dimensions

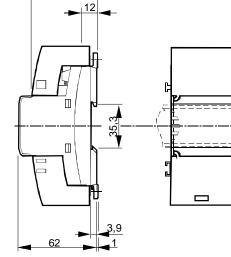
Without terminal covers

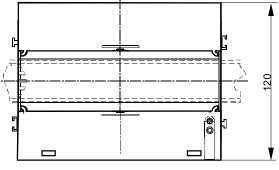


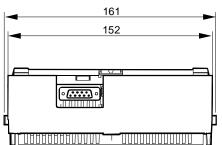
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With terminal covers







5363M02

() **Drilling template**]∫∲ 100 ji¦⇔ Ð 5363M03

Dimensions in mm

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Subject to alteration