T 021
08.04.10 DA
REV. 02

REMOTE MANAGEMENT
DATA COMMUNICATION SYSTEM

C ←BUS

1. DESCRIPTION

C-Bus is a proprietary Bus for bidirectional communication between controllers and technological units in the field of domotics and building comfort systems, using both local PCs and/or remote management PCs via modem, fixed or GSM telephone networks, and TCP-IP (Ethernet network).
All remote management PCs will have to run SWC 701 software, provided by COSTER on a free loan basis.
It allows the centralisation of all adjustment, control, and alarm operations, and the viewing of measurements and data during the functioning of the system, to optimise its management and maintenance.
It also allows :

- the acquisition of data and configured values, as displayed on the system unit screens
- the acquisition of functioning conditions (statuses) of system components.
- the acquisition of any anomalies (alarms) of system components (pumps, burners, fans, etc.) with vocal or SMS alarms sent to one or more telephone numbers for timely and targeted intervention.
- remote editing of system unit functioning modes, including: timer and operating hours.
- acquisition of management events, to build a historical archive for each system.

2. CONNECTIONS

2-wire connection in parallel to COSTER with C-Bus devices, strictly respecting the 0C - C polarities, laying the C-Bus cable in dedicated piping or cable duct for signal transmission.
Transmission speed: 1200 ... 9600 bps.
Length and section of the wires are specified in the data sheets of the devices that manage the C-Bus (Master C-Bus): amplifiers/converters, modems, etc.

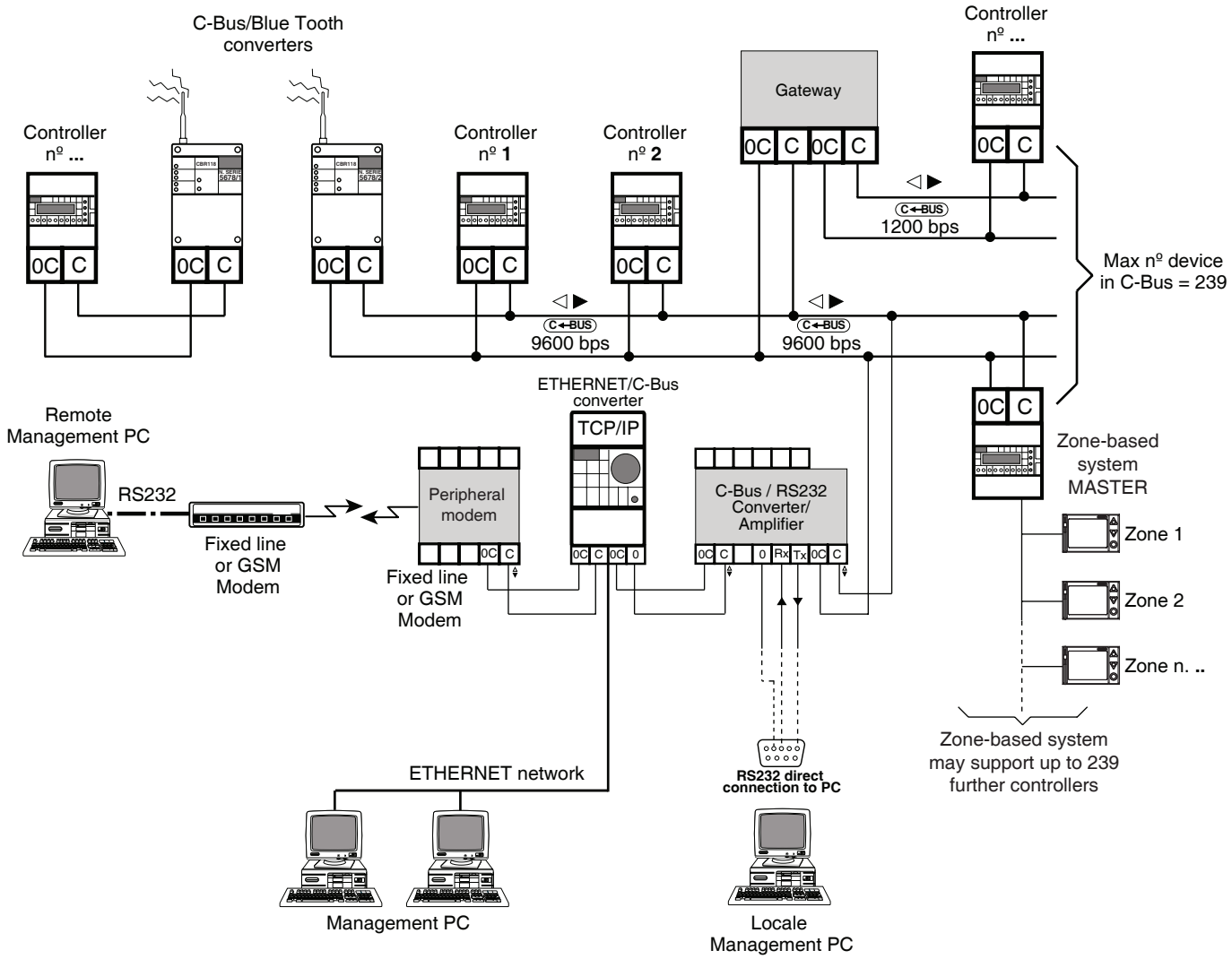
3. INSTALLATION

Check connections making sure that the polarities of the wires at the 0C and C terminals are correct.
To configure addresses, alarm send and remote management key, follow the instructions given in the data sheet of each controller.

4. PLUG-IN C-BUS PER APPARECCHIATURE SERIE X ...

Inseriti nell'apposito slot di comunicazione delle apparecchiature della serie X..., permettono la telegestione via C-Bus delle stesse.
Per conoscere la massima velocità di comunicazione disponibile, fare riferimento alla scheda tecnica del singolo regolatore.

5. ELECTRICAL WIRING (generic example)



The example shows the C-Bus connections and all the available modes in which the systems may be managed remotely, even simultaneously:

– via direct connection to local PC
– via modem, fixed line or GSM
– via TCP/IP ethernet network

The same C-Bus can be used for several units (controllers) that operate at different communication speeds (1200...9600 bps), up to a maximum of 239 units.
It is also possible to manage an independent-zone-based system (offices, bedrooms, etc.) which in turn may support up to 239 further zone controllers.
The C-Bus may be extended via radio waves, using C-Bus/Blue Tooth converters.
For detailed information on uses and functions, please refer to the data sheets of the “Master C-Bus” units (amplifiers/converters, fixed line or GSM modems, etc).
All PCs dedicated to remote management must run SWC 701 software, provided by COSTER on a free loan basis.

Data sheet changes

Data	Revision n.	Page	Section	Description of changes	Firmware version	Software version
19.02.07 AM		1 - 2	1, 2, 6, 7	New minimum requirements for remote management PC inserted. MPD 412 modem added. MPA 643 modem and DCL 232 converter removed		
20.04.07 AM	**01**	2	6. C-BUS CHARACTERISTICS	MPD 412 model removed		
08.04.10 VM	**02**	All	All	Complete revision		

COSTER
CIE CONTROLLI TEMPERATURA ENERGIA
COSTER TECNOLOGIE ELETTRONICHE S.p.A.
Sede Legale: 20132 Milano - Via San G.B. De La Salle, 4/a

Head Office & Sales
Via San G.B. De La Salle, 4/a — Tel. +39 022722121
20132 - Milano — Fax +39 022593645
Orders — Fax +39 0227221239
Reg. Off. Central & Southern
Via S. Longanesi, 14 — Tel. +39 065573330
00146 - Roma — Fax +39 065566517
Shipping
Via Gen. Treboldi, 190/192 — Tel. +39 0364773200
25048 - Edolo (BS) — Tel. +39 0364773202

E-mail: info@coster.info — Web: www.coster.eu

D 33096