



evacom

LX20

**Installation
Instructions**

Programming Transmitters

Your LX20 GPRS transmitter must be programmed with a number (or two) in order to send signals upon activation.

If you have requested it, your transmitter will have been PRE-PROGRAMMED at evacom. But if not, you will need to program the transmitter yourself.

evacom™ supplies the software required free, but you will need a proprietary cable (available from our website).

Alarm Panels

The example panel used in these instructions is a Bosch Solution 844 with ContactID connections, 18 volt transformer and space in the panel interior for additional components.

The evacom™ LX20 can be installed into any alarm panel that outputs ContactID, so there shouldn't be any problem substituting the panels.

In general the only connection(s) to the panel are the INPUT for signals, replacing the PSTN input, and perhaps to SHARE the battery*.

*not recommended – see later

Separate enclosure

Sometimes there is no room within the alarm panel for the evacom™ components. Or it might be preferable for the evacom™ transmitter and power supply to be installed in a separate enclosure.

These instructions are specifically for components installed in an existing panel box, but a separate enclosure poses no extra issues.

Aerial

The GPRS unit in the LX20 board requires that signals can be received from the cellular network. An aerial is supplied (pictured page 6), which **MUST** be mounted at least 1.5 metres from the alarm panel transformer.

To get a good signal from the cellular network it might be necessary to experiment with several locations for the aerial. Usually an outside wall is better than the centre of the house. In some cases a signal booster might be required.

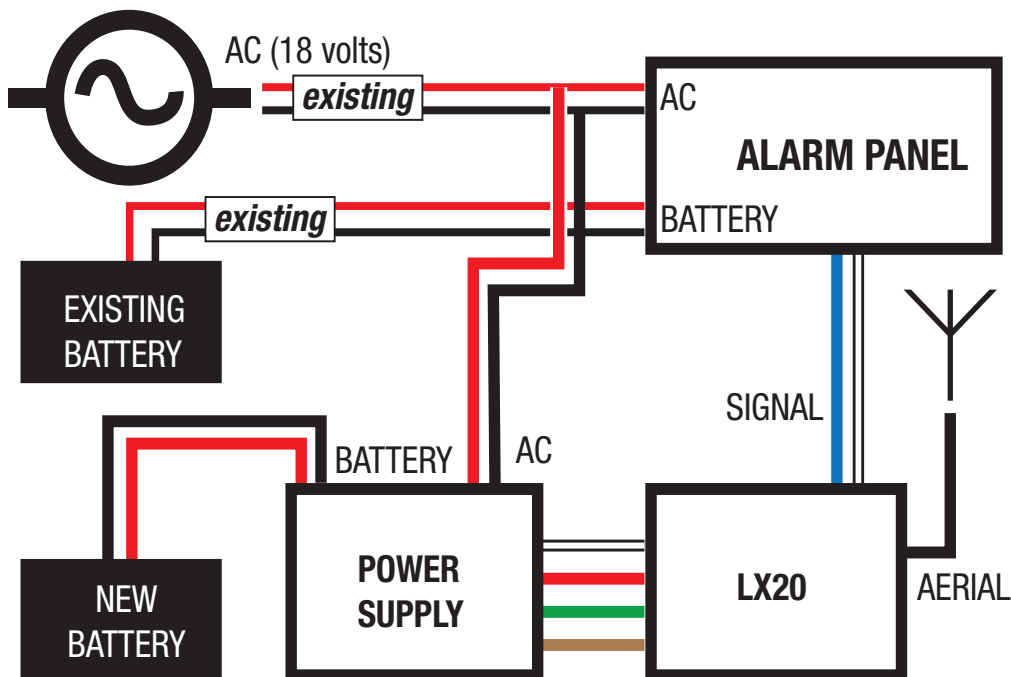


The aerial used is OMNIDIRECTIONAL, which works best when vertical. Fix it in a vertical position against a wall or upright partition (not metal), and resist the temptation to throw it horizontally across the insulation of the roof space.

WARNING

GPRS signals from all telecommunications companies are notoriously inconsistent. What might be a reasonable signal one day could be poor the next, so it is imperative that a good signal be found. A signal that is on the edge of adequacy at installation time might drop out later, due to atmospheric or a number of other conditions.

Simplified Wiring Diagram



NOTE:

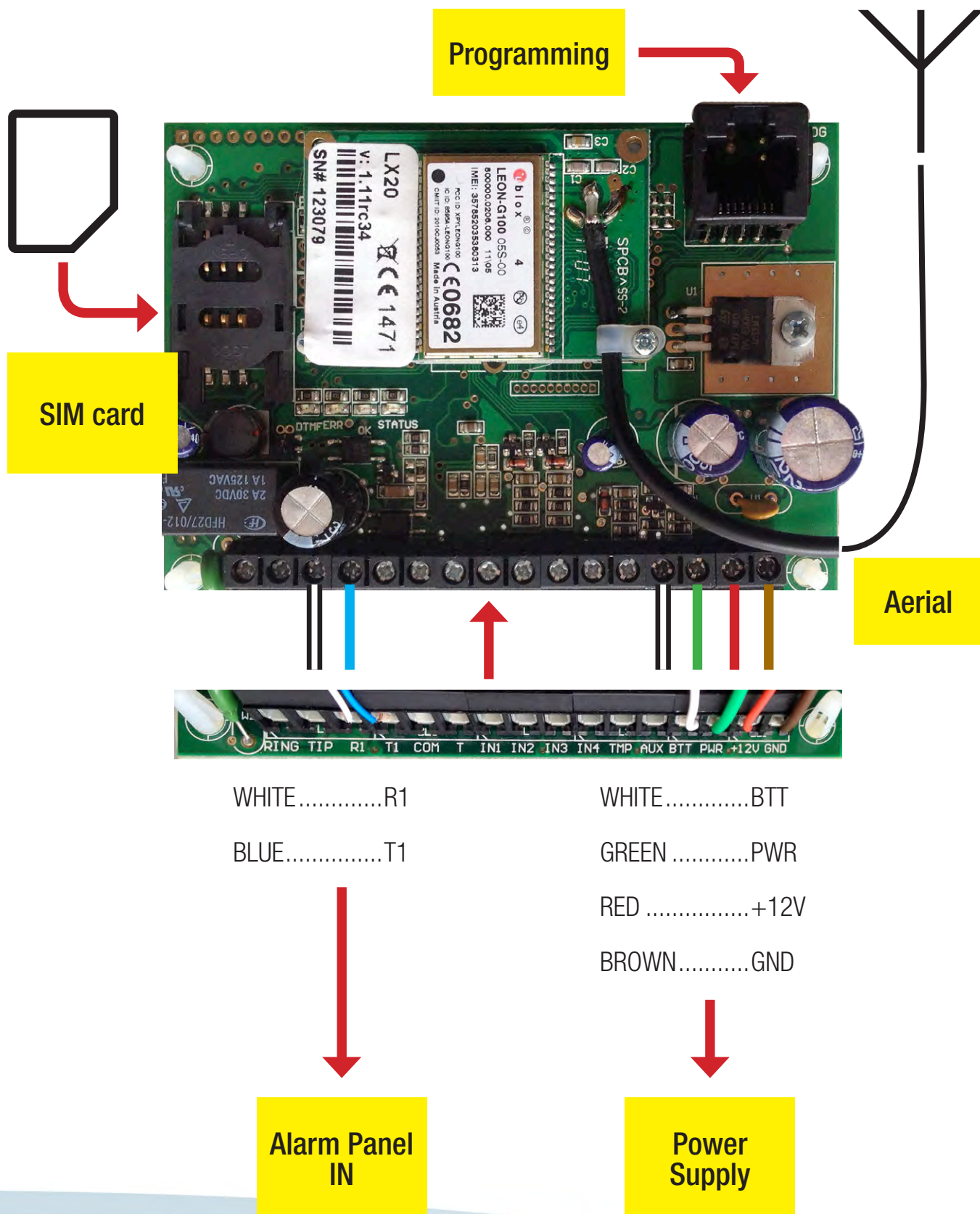
These instructions are for using an additional backup battery, which is recommended. If using the EXISTING battery, check the special instructions on page 6

The LX20 connects through four (4) wires (WHITE, RED, GREEN, BROWN) to the Power Supply (prewired on the PS board), and through two (2) signal wires (usually BLUE and WHITE) to the alarm panel.

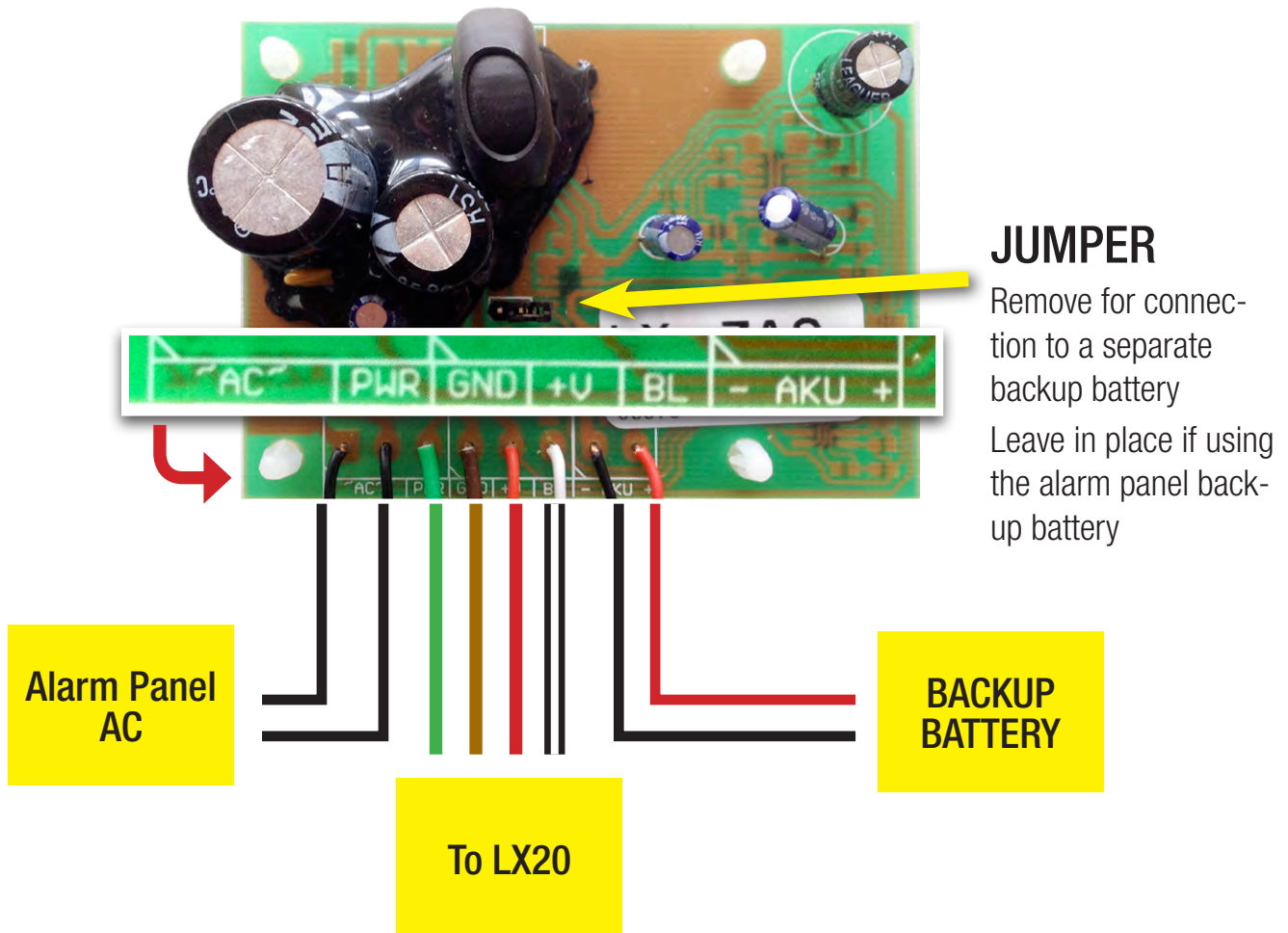
The Power Supply then connects to the new backup battery, and to the AC alarm panel connections for power.

For more detailed illustrations, turn the page.

LX20 Board



Power Supply



PLEASE NOTE:

On these boards, **BROWN** is Ground, **NOT** green

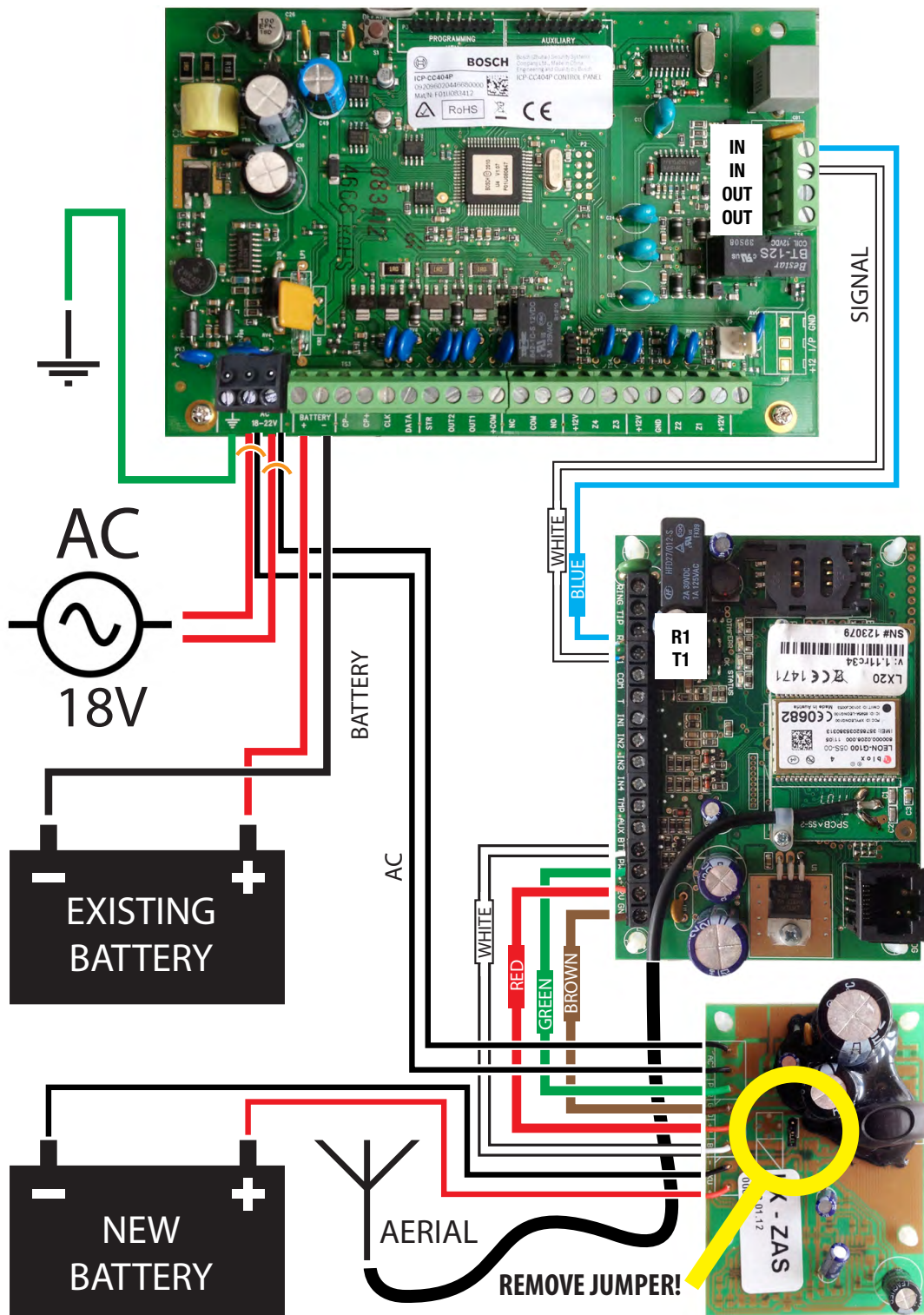
PLEASE NOTE:

A separate battery for the LX20 module/power supply is highly recommended. Installations using the existing backup battery may cause false battery fail signals to be sent to the monitoring station

Aerial



Full Installation Diagram – two backup batteries



Dialler Setup

The alarm panel dialler must be set to 'ring' the LX20 module, which is either pre-configured at evacom™ to dial your preferred monitoring station, or it is the number you have programmed yourself*, whenever a signal is received from the panel.

*Requires special software and cable, available from evacom™.

NOTE: ANY number can be used. The alarm dialler only needs to know the number programmed into the board, which could be 1234567 or 7777777

Single Communication Path Installations

If the LX20 is the only form of communication with the Monitoring Station, set the alarm panel to dial the LX20 transmitter. Nothing more is required.

Multiple Communication Paths

The LX20 transmitter is best treated as a 'phone line'. If the alarm dialler can be programmed for more than one number, set the LX20 number as one and the alternative communication path as a separate number.

Whichever is set as PRIMARY will be dialled first, and if no connection is made, the SECONDARY number will be dialled.

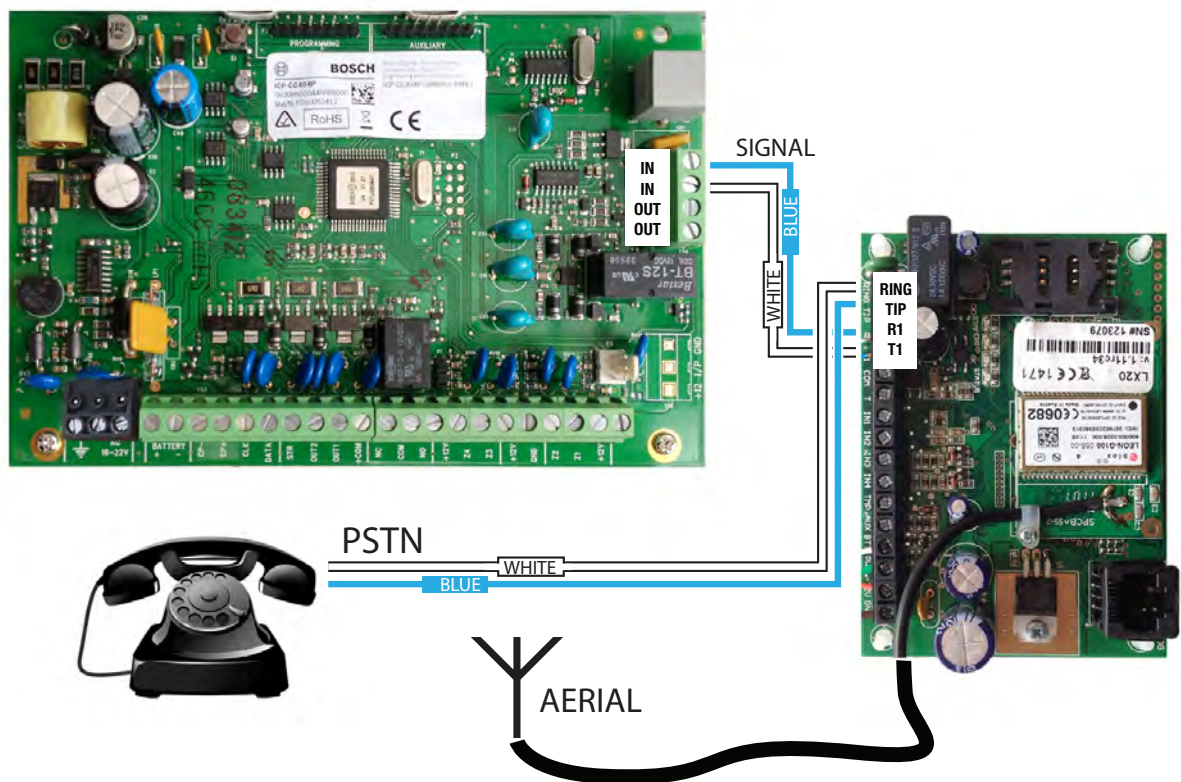
Installation with PSTN (landline)

When retaining a PSTN line for the alarm panel, the LX20 module is installed BETWEEN the alarm panel and the PSTN line (in serial – see diagram).

Whether the LX20 module is the PRIMARY or the BACKUP signal path for the alarm panel, two numbers must be set up in the alarm panel dialler.

The first number is PRIMARY, the second number is SECONDARY, or Backup.

The order that you set the numbers in the alarm panel dialler depends upon whether the LX20 is Primary or Backup.

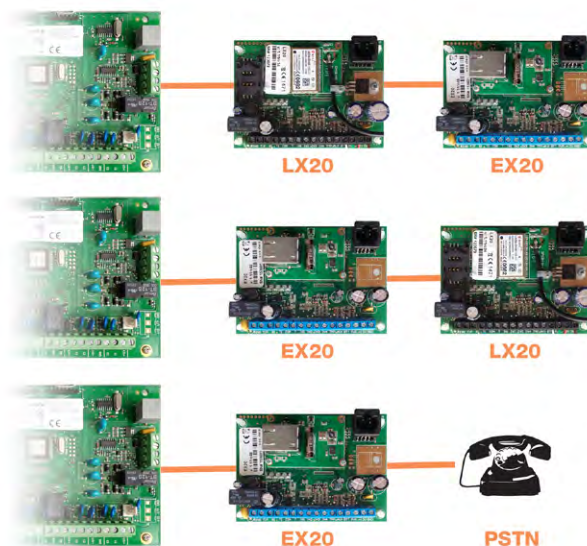


Installation with evacom™ EX20 module

Communication modules can be installed in SERIAL (as shown above) and the alarm panel dialler set to the appropriate numbers.

Communication modules can be installed in any order, regardless of which is to be dialled first. When a number is dialled that is NOT the EX20 number, it is ignored, and passed through to the next device

The exception is PSTN, which must be last as it has no *pass-through* function.



evacom™ Limited

304 High Street
Lower Hutt 5010

64 4 569 3511

info@evacom.co.nz

For more information, visit our website:

www.evacom.co.nz

