

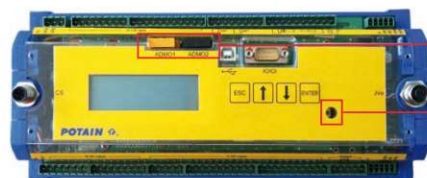
## V3 radio control (with indicators)

The V3 processing unit is like an on-board computer which allows a detailed diagnosis (fault messages, fault stacks, zone limitation and wind recorder).

Furthermore, on the GMA range, it manages the safety devices, load curves and the erection aid.

### V3 radio control:

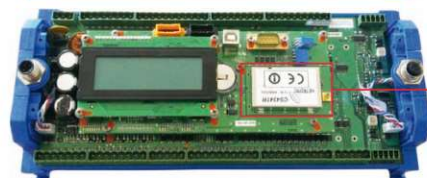
- Proportional control switches in series
- Proportional controls or controls with notches for slewing, hoisting and trolleying (the control type is defined by the characteristics of the mechanisms fitted on the crane).
- Transmitter / receiver HF block of CS 434 TR type
- With indicators (radius, height, etc...)
- **Communication in both directions: processing unit ↔ transmitter**
- An auxiliary control unit (wire connection) supplied with the crane



The V3 has 3 different ADMO keys.

- Two keys in the processing unit.  
The orange key contains the information of teach-in programming, addressing and the counters. It corresponds to the memory of the processing unit.
- The black key contains the system address.
- A key on the transmitter.

The V3 processing unit is equipped with a connector on the front side in order to connect the antenna cable (low crane).



It is however possible to connect a shifted HF receiver in order to improve the reception. It is connected to the processing unit via the CAN1 bus. It is systematically used on the MDT cranes as the processing unit of these cranes has no HF block.

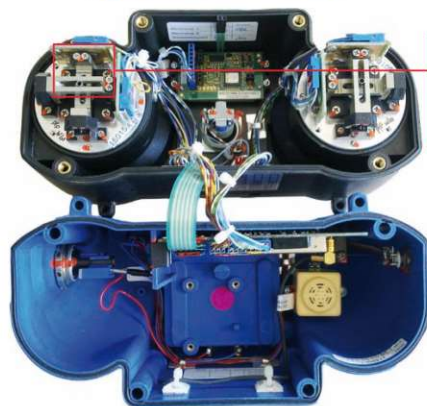
The V3 processing unit allows to write addresses onto the ADMO keys.

The HF CS 'xxx'-TR block allows transmission et reception of data (for GMA and MCT).



The transmitter of the V3 has navigation keys in order to move inside the menus.

Thanks to the transmitter menu it is possible to change the frequency group and the channel directly by means of the transmitter without dismantling (see chapter HF adjustment on V3 transmitter, page 38).

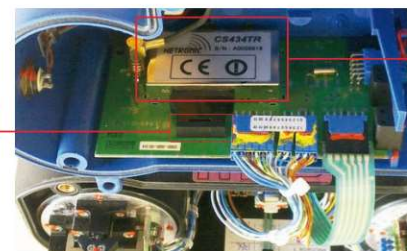


Proportional control switches in series:  
Continuous tracks (no notches)

However, in order to improve the control unit ergonomics, the transmitter control switches have «hard points».



During 2011, the transmitter has evolved by the shift of the ON button. Previously located on the upper side it is now located on the right side of the transmitter.



The HF block existing in the transmitter and in the processing unit has no configuration switches. Adjusting the groups and the frequencies is done by means of the configuration menu of the transmitter and the processing unit (for GMA and MCT without shifted receiver).



The HF block inside the shifted receiver is equipped with configuration switches. The table below shows the 4 possible configurations with automatic channel research. The automatic channel research function must always be activated.

A correct functioning of the automatic research requires:

- Switch S1 must be on 1
- Switch D2 or D3 must be on 1 too

It is planned that the shifted receiver is interchangeable from one crane to the other for GMA and MCT. So, arrange in pairs the ADMO keys of the shifted receiver with the processing unit and the radio control box is not compulsory. The processing unit writes on the key, when starting the crane, the address in the CCV3 ADMO key of the shifted receiver. The address of the second key is without any importance.

For MDT cranes it is necessary to arrange in pairs all the keys.

CS 434 TR (EU)							
Group	S1	D2	D3	D4	D5	D6	Channels
1	1	0	1	0	0	0	68, 58, 54, 52, 49, 41
2	1	0	1	0	0	1	67, 59, 55, 53, 47, 44
3	1	0	1	0	1	0	66, 64, 61, 57, 51, 43
4	1	0	1	0	1	1	65, 63, 60, 56, 50, 42

CS 458 TR (US)							
Group	S1	D2	D3	D4	D5	D6	Channels
1	1	0	1	0	0	0	18, 15, 10, 3, 1
2	1	0	1	0	0	1	17, 14, 9, 2, 0
3	1	0	1	0	1	0	18, 12, 8, 5, 3
4	1	0	1	0	1	1	17, 11, 7, 4, 2
5	1	0	1	1	0	0	27, 19, 16, 14, 10, 0
6	1	0	1	1	0	1	24, 15, 13, 9, 6, 1
7	1	0	1	1	1	0	26, 18, 12, 8, 5, 3
8	1	0	1	1	1	1	25, 17, 11, 7, 4, 2