


DESCRIPTION

- On/off by 

- **Screen A digital display :**

- . programmes : programme N°.
- . work : information name.

- **Screen B digital display :**

- value of programme or of work information.

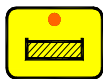
- **4 work selection keys (yellow) :**



Display of volume/ha and of instant forward speed.



Display of volume of liquid sprayed, of outflow/mn, and of volume of liquid remaining in tank.









Display of area treated.



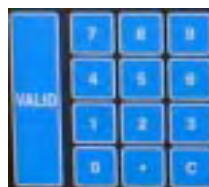
Display of distance covered.

- **1 programming key** 

- **1 manual correction key**  used for adjusting pressure by pressing  or 

- increase/decrease dose :   

- numerical keypad for programming with "VALID" key :



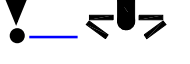
- yellow on/off switch operating boom to :



Unfold/fold boom arms.



Tilt correction boom.

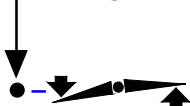


Unfold/fold boom forward arms.

- blue on/off switch operating boom to :



Lock boom.




Tilt correction boom.

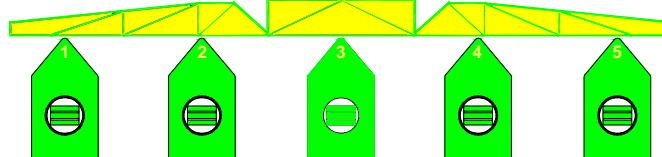
- stop spray on/off switch :
(switch in upper position to stop)



OFF
ON

- Spray indicator : 

- 5 boom section spray on/off switches (5 maximum) :



**Boom operations with
6 or 8 way-distributor
valve only**

**SPRAYING WITH
1 SECTION ONLY :**
Close the last boom section by
spray on/off switch.

General on/off switch
(switch off after use)



INSTRUCTIONS FOR USE

Switched on control box by 

... screens A and B display



AXIS

Programme
mode

1-002

PROGRAMMING

Control box switched off.

To access "Programming" mode, press and keep  key depressed, and press , the following two screens are displayed :

PROG 00

- using the keypad, key in 1, then press "VALID" to access


programme 1 :

P 1 0

This programme enables you to chose one of two possible entries for the speed pickup : either for mounted or for pull type sprayer.

- using the keypad key in 0 : mounted sprayer
or 1 : pull type sprayer

- press "VALID".

- then press  to return to choice of programmes.

- using the keypad, key in 2, then press "VALID" to access

programme 2 :

P 2 76

This programme enables you to key in the value of the spacing of narrow wheels, i.e. the number of pulses in 100 metres.


- using the keypad, key in the spacing value.

- press "VALID".

This corresponds to work information : wheel 1

If the value is not known, proceed as follows :

- mark out a distance of 100 metres.
- key in value 1 and press the blue "VALID" key.
- drive over the 100m distance : pulses are recorded as you drive.
- press the blue "VALID" key : the value shown corresponds to the spacing value of narrow wheels.

Then press  to return to choice of programmes.

If only one set of wheels is used, programme 0 in this programme.

- using the keypad, key in 3, then press "VALID" to access

programme 3 :

P 3 0


This programme enables you to key in the spacing value of wide wheels, i. e. the number of pulses in 100 metres.

- using the keypad, key in the spacing value.

- press "VALID".

This corresponds to work information : wheel 2

If the value is not known proceed as in "PROG 02" above for spacing : a value corresponding to wide wheels will be displayed.


Then press  to return to choice of programmes.

- using the keypad, key in 4, then press "VALID" to access **programme 4 :**

P 4 24

This programme enables you to key in the width of the work area in metres.


This corresponds to work information : width 1.

- using the keypad, key in the width of the boom in metres.
- press "VALID".
- then press  to return to choice of programmes

- using the keypad, key in 5, then press "VALID" to access **programme 5 :**


P 5 6

These programmes (5 to 9) enable you to key in the number of nozzles on each section of the boom. A maximum of 5 sections can be programmed.

- using the keypad, key in the number of nozzles for the first section : P 5.
- press "VALID".
- then press  to return to choice of programmes.

- using the keypad : key in 6, then press "VALID" to access **programme 6 :**

P 6 6

- using the keypad, key in the number of nozzles for the second section : P 6.
- press "VALID".
- then press  to return to choice of programmes.

NOTE : Key in "0" for unused section(s).


- proceed in the same way for programmes 7-8-9 corresponding to the 3th, 4th and 5th sections.

- using the keypad, key in 13, then press "VALID" to access **programme 13 :**

P 13 0

This programme enables you to key in a second work width in metres.

This corresponds to work information : width 2.


- using the keypad, key in the width of the boom in metres.
- press "VALID".
- then press  to return to choice of programmes.

NOTE : key in 0 if there is to be no second width.

- using the keypad, key in 14, then press "VALID" to access **programme 14 :**

P 14 6

These programmes (14 to 18) enable you to key in the number of nozzles on each section for the second boom width. Maximum : 5 sections.

- using the keypad, key in the number of nozzles for the first section : P 14.
- press "VALID".
- then press  to return to choice of programmes.


- using the keypad, key in 15, then press "VALID" to access **programme 15 :**

- using the keypad, key in the number of nozzles for the second section : P 15.

P 15 6

- press "VALID".

NOTE : key in 0 for unused section(s).

- then press  to return to choice of programmes.

- proceed in the same way for programmes 16 - 17 - 18, corresponding to the 3rd, 4th and 5th sections.

The value of the number of pulses on the flowmeter is factory programmed. If the flowmeter is replaced, it must be adjust ; to do this :

- set the sprayer at fixed working pressure.
- place a container under a nozzle of each section.
- run 50 litres (QL), for example, of liquid as measured on the control box.
- measure the total volume of liquid sprayed (QM).
- calculate the value (VN) to be changed on the flowmeter as follows :

$$\frac{QL \times VA}{QM} = VN$$

QL : volume controlled on the control box (50 litres).

QM : volume measured in litres.

VA : number of pulses shown on flowmeter.

VN : new value to be keyed in.


Then :

- using the keypad : key in 22, then press "VALID" to access **programme 22 :**

- using the keypad, change the number of pulses on the flowmeter.

P 22 668

- press "VALID".

- then press  to return to choice of programmes.

This programme enables you to key in the number of pulses per litre of spray measured on the flowmeter.

The greater the number of pulses on the flowmeter, the greater the volume of liquid is sprayed.

- using the keypad, key in 23, then press "VALID" to access

programme 23 :

P 23 50

This programme enables you to key in the constant of the motor-driven valve.

The value of the number of pulses of the motor-driven valve is factory programmed.

If it is replaced, value **50** must be keyed in.

- press the blue "VALID" key.


- then press  to return to choice of programmes.

- using the keypad, key in 24, then press "VALID" to access

programme 24 :


P 24 **1**

These two programmes indicate the "all or nothing" type of circulation

- value 1 corresponds to the type of circulation.
- press the blue "VALID" key.
- then press  to return to choice of programmes.

- using the keypad, key in 25, then press "VALID" to access **programme 25 :**

P 25 **0**


- value 0 corresponds to the type of circulation.
- press the blue "VALID" key.
- then press  to return to choice of programmes.

- using the keypad, key in 36, then press on "VALID" to access

programme 36 :

P 36 **100**

This programme enables you to programme an alarm signal when the liquid in the tank drops to a minimum volume.


- key in a minimum number of litres to trigger an alarm signal : the word "CUVE" flashes on the screen.
- if no alarm signal is wanted, key in 0.
- press on "VALID".
- then press  to return to choice of programmes.

- using the keypad, key in 37, then press "VALID" to access

programme 37 :

P 37 **9**

This programme enables you to stabilise the programmed volume/ha.


- if the volume/ha display is not stable, increase the displayed value (factory set at 9) by one unit at a time (maximum 20).
- press the blue "VALID" key.
- then press  to return to choice of programmes.

- using the keypad, key in 38, then press "VALID" to access

programme 38 :

P 38 **48**


This programme enables you to check the number of programmed nozzles by a visual display.

- open the entire boom, then gradually close the various sections of the boom while checking that the number of nozzles displayed is correct. In the event of an error, return to programmes 5 to 9 (or 14 to 18 in the case of programming a second work width).
- then press  to return to choice of programmes.

- using the keypad, key in 39, then press on "VALID" to access **programme 39** :


This programme enables you, while working, to visualise the pulses of the speed pickup recorded on the control box.

- then press  to return to choice of programmes.

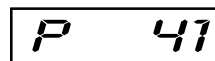
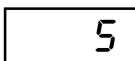
- using the keypad, key in 40, then press on "VALID" to access **programme 40** :


This programme enables you, while working, to visualise the pulses of the flowmeter recorded on the control box.

- then press  to return to choice of programmes.


- using the keypad, key in 41, then press on "VALID" to access **programme 41** :

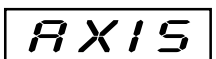

 


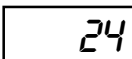
This programme enables you to re-programme the motor-driven valve if it has been replaced.

- the motor-driven valve is factory programmed ; if it is replaced, value 5 must be re-programmed..
- press the blue "VALID" key.
- then press  to return to choice of programmes.



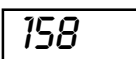


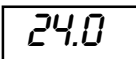





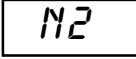


USING

Turn on the control box using key 

... screens A and B display  

Incidents : if both screens display an error message, for example :  
this means there is a programming error in programme 24 (in this example) ; return to programme 24 and correct the data for this programme.

WORK INFORMATION :

- Press  :   : Programmed volume/ha
- Press  :   : Programmed boom width
- Press  :   : Type of wheel programmed
- Press  :   : Type of circulation
- Press  : the indicator  lights up :


CAN BE ALTERED if necessary using the KEYPAD :

- Key in new volume
 - Key in 1 or 2
 - Key in 1 or 2
- and validate using the blue "Valid" key

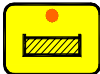
Depending on the programming, some windows may not appear..

- display of volume/ha and instant speed while working :  


From this position, chose the following information :

When  is pressed : the indicator lights up, and by pressing repeatedly the following displays appear :

Partial volume sprayed, in litres (maximum 9999) :	PART	337
Total volume sprayed, in litres (maximum 999999) :	TOT-	1234
Total outflow/mn, in litres :	MINU	51
Volume of liquid remaining in tank : the volume is programmed using the keypad, and then pressing "VALID". (when refilled the volume is displayed automatically).	CUVE	1650

When  is pressed : the indicator lights up, and by pressing repeatedly the following displays appear :

Partial area treated in hectares (maximum 9999) :	PART	2.1
Total area treated in hectares (maximum 999999) : (0 impossible).	TOT-	23

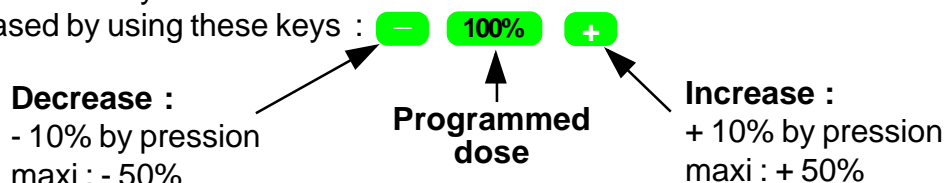
When  is pressed : the indicator lights up, and by pressing repeatedly the following displays appear :

Partial distance covered, in metres (maximum 9999) :	PART	153
Total distance covered, in metres (maximum 9999) :	TOT-	1013

INCREASING/DECREASING DOSE

During treatment the dose may be



increased or decreased by using these keys :



If the dose is changed, the speed display disappears and is replaced by %.

MANUAL ADJUSTMENT

When the control box is switched on, it is in automatic mode. To access manual adjustment mode :

Press  several times until indicator  lights up, then press **MANU** : the indicator lights up, then use **-** or **+** to adjust spray pressure.

ALARM INDICATORS

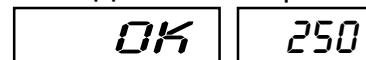
D-MA	Maximum outflow reached : reduce forward speed.
D-MI	Minimum outflow reached : increase forward speed or reduce pump outflow.
CUVE	Tank nearly empty. Only shows if an alarm signal has been programmed (PROG 36).

RETURN TO ZERO :

All parameters may be set back to zero by pressing twice 

IN ALL CASES :

When a new parameter has been keyed in and validated theses two screens appear : Example :



To delete a parameter during programming : press 