

EXAMPLE OF DOSING BY DISCHARGE AT ONE SPEED WITH SMART

Once are configured all the basic parameters of the device (SCALE DEF, OPTIONS, MASS CALIB. or mV CALIB.), we will configure the DIGITAL OUTPUTS menu, where we set the setpoint for the dosing. Afterwards we will configure the DIGITAL INPUTS menu where we will define the start and the end of the dosing.



Finally we will show the connection ways for the SMART digital inputs and outputs, via SUB-D 25 connector or via cable glands for the SMART IP-65 version.

Starting from the following example of dosing:

We have got two 250kg load cells capacity and we want to perform a 300kg scale with a 100gr division.

We will make 5, 10, 15 and 20kg pots.

The SCALE DEF menu will be configured as follows:

FUNCT: INDICA

BIRANGE: OFF (Multirange deactivated)

CAP: 300 Kg (Maximum capacity of the scale)

D1: 1 (Value of the scale division)

DP: 0,1 (Decimal point position)

0-TRACK: 0,5d (Zero follower band)

0-TOP: 1,9 (Allowed limit to the  key)

0-START: OFF (Auto zeroes when it is turned on)

0-NEG: OFF (Auto zeroes if negative weight)

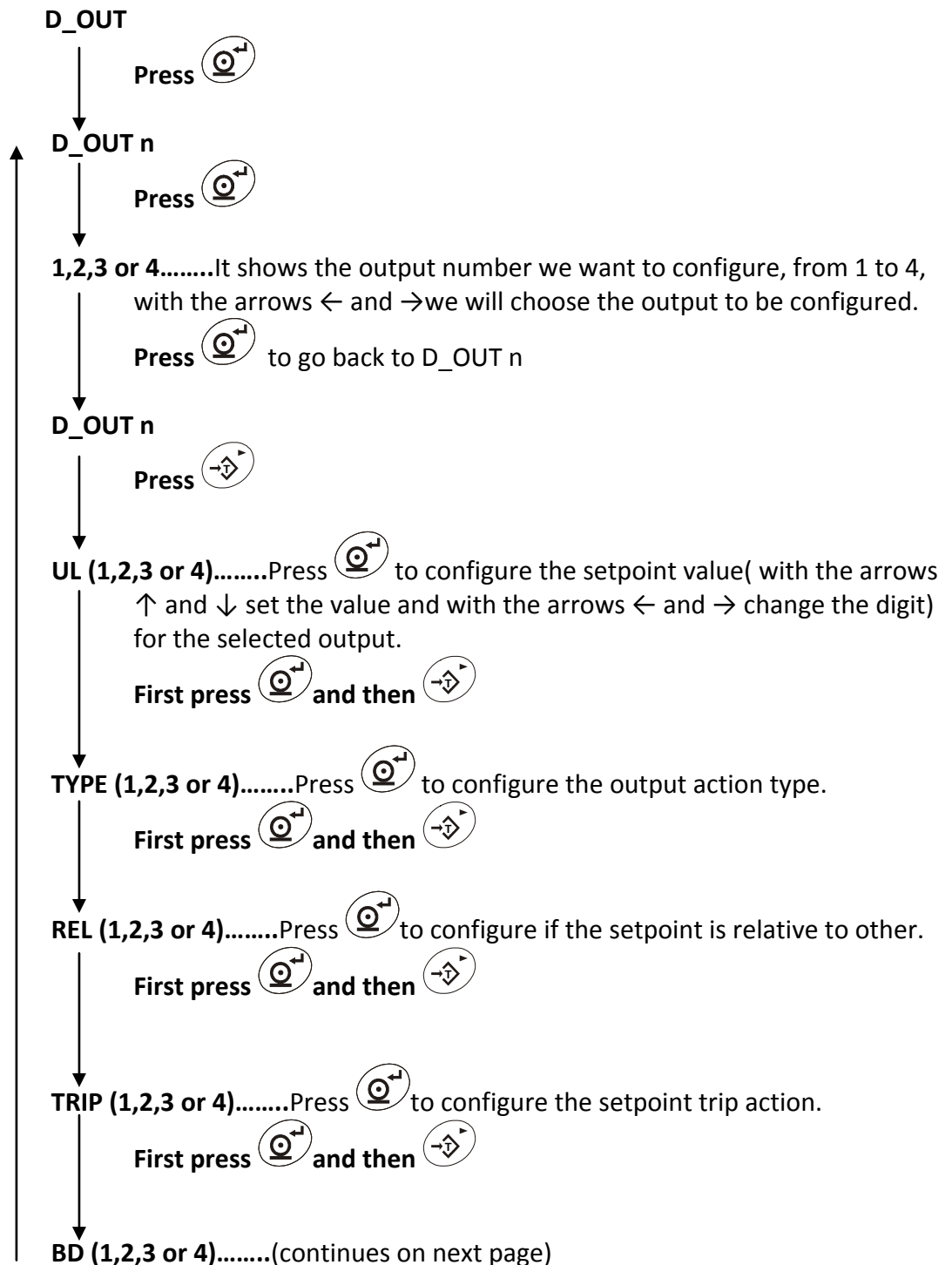
UNIT: Kg (Units)

VALUES THAT WE SHOULD SET IN D_OUTs TO PERFORM THE DOSING BY DISCHARGE AT ONE SPEED ACCORDING TO THE EXAMPLE (5kg pot)

D_OUT n	1	2	3
UL	0	5,0	0
TYPE	NET	N_REL	N_REL
REL	1	1	2
TRIP	H	L	H
BD	0	0	0
HY	0	0,2	0
D.LOC	ON	OFF	ON
OUTPUT	OFF	2	3

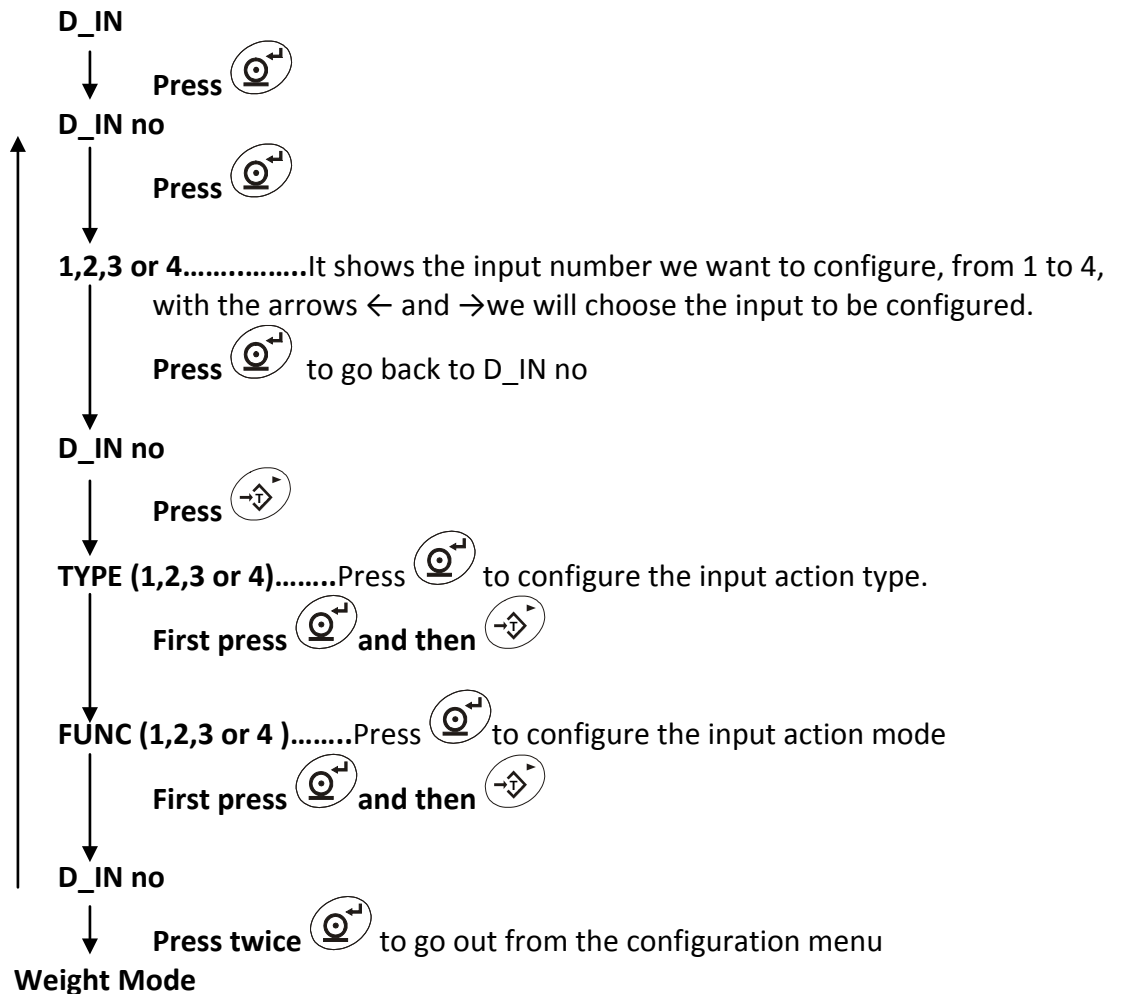
D_OUT's CONFIGURATION MENU

Press  +  (first press EXIT and hold and press →0←) the device will ask us for the PIN code, to configure this menu is not necessary because we will not change protected parameters, press  and get into the configuration menu, then press 5 times  key, now we are in **D_OUT** menu.



D_IN's CONFIGURATION MENU

Press  +  (first EXIT and hold and then press →0←) the device will ask us for the PIN code, to set that menu is not necessary to introduce the PIN code, because we are not going to change any protected parameter, press  and go into the configuration menu, press  6 times and now we are in **D_IN** menu.



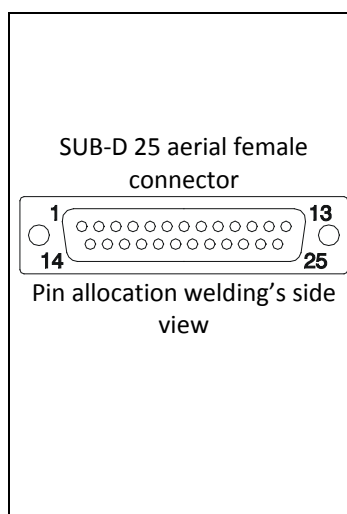
Once are configured the D_OUT and the D_IN, we should perform the following wiring:

The D_OUT 3 will be used to end the maneuver, I mean, we will connect the D_OUT 3 output to the D_IN 2 input, in this way, we will frame the maneuver. When the device will reach the setpoint, it will perform a C.TARE (Clear Tara) automatically to finish the maneuver.

It's shown below the two possible examples of connection, or a SUB-D 25 female connector or a SMART IP-65 (with cable glands).

Multi option wiring connection for the digital inputs and outputs with a SUB-D 25 female connector

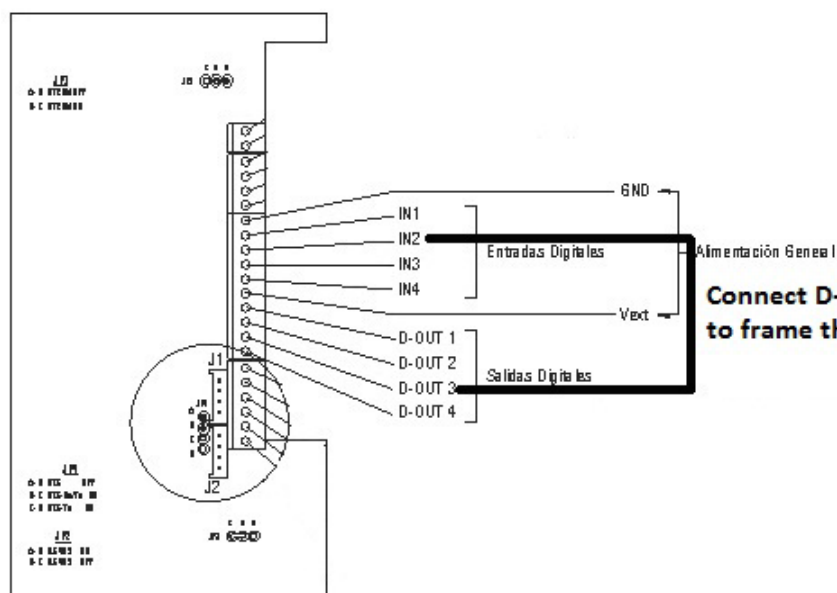
DIGITAL INPUTS	
PIN	SIGNAL
5	IN1
18	IN2
6	IN3
19	IN4
4	GND
DIGITAL OUPUTS	
PIN	SIGNAL
9	Vext
10	D-OUT1
22	D-OUT2
11	D-OUT3
23	D-OUT4
4	GND



The SUB-D 25 female connector it should be connected as follows:
 Pin 11(D_OUT3) with pin 18(IN2) to frame the dosage maneuver.

Wiring diagram for a SMART-IP65 multi option

For a SMART IP-65 the wiring connection of the digital inputs and outputs must be performed as follows.



We should perform a bridge between D-OUT3 and IN2 terminal, to frame the dosage maneuver, as shown in the figure.

**Connect D-OUT3 to IN2
to frame the maneuver**

4 Digital Inputs/4 Relay outputs accessory

Accessory necessary if you want to have 4 digital relay outputs, because with SMART Multi 1 or Multi 2 there are already 4 digital outputs, but these outputs aren't to relay are Open Collector transistors.

