



DATASHEET

DRGPGT003V_09_EN
19/09/2017

CUSTOMER: SALHYDRO	PROT. N.:
1 FUNCTION SPECIAL (TX WITH CUSTOM KEYBOARD)	

KIT	Rev. Index	Date	Description
XKITYD021XXXX	01	20/02/2018	First issue
	02	02/03/2018	Modified system functioning

	WRITTEN	VERIFIED	APPROVED
DATE	02/03/2018	05/03/2018	
FUNCTION	Documentation	R&D Manager	
NAME	Quaglia Alessandro	Alberto Massimo	

CUSTOMER VALIDATION	
DATE	
NOTES	

1. Part Numbers

	SISTEMATICA S.p.A. P/N	CUSTOMER P/N
KIT	XKITYD021XXXX	
HANDHELD	XS221PXYD011X	
POWER SUPPLY (2x)	XBAT02000020	
NECK STRAP	\	
CRADLE	\	
BATTERY CHARGER	\	
SAFETY POINT PLATE	\	
CONTROLLER	XS292RFYD011X	
WIRING HARNESS	XCBLSE212RXX	
EXTERNAL ANTENNA	\	
EMERGENCY MUSHROOM BOX	\	

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2. Handheld



PART NUMBER
XS221PXYD011X



PART NUMBER
XBAT020000020



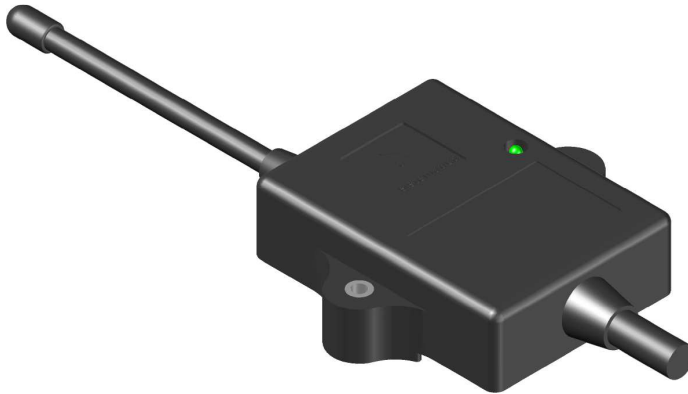
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FAMILY		NOTES
Nimble	<input checked="" type="checkbox"/>	
Nemo	<input type="checkbox"/>	
Rescue	<input type="checkbox"/>	
Lift	<input type="checkbox"/>	
Easy	<input type="checkbox"/>	
Easy B	<input type="checkbox"/>	
Trend	<input type="checkbox"/>	
Trend B	<input type="checkbox"/>	
Ego	<input type="checkbox"/>	
POWER SUPPLY		
Alkaline 3V 2x1,5 AA	<input type="checkbox"/>	Supplied as kit
Alkaline 3V 2x1,5 AAA	<input checked="" type="checkbox"/>	Supplied as kit
Lithium single cell 3.7V	<input type="checkbox"/>	
12-24 V _{dc} with cord	<input type="checkbox"/>	
COMMUNICATION INTERFACES		
RF 433.2 - 434.6 MHz	<input type="checkbox"/>	
RF 865.4 - 868.2 MHz	<input checked="" type="checkbox"/>	
RF 915.2 - 918.0 MHz	<input type="checkbox"/>	
RS485	<input type="checkbox"/>	
RS232	<input type="checkbox"/>	
CAN Bus	<input type="checkbox"/>	
OPTIONS		
Keyboard backlight	<input type="checkbox"/>	
Buzzer	<input type="checkbox"/>	
Emergency mushroom	<input type="checkbox"/>	Only available on Trend and Ego family
Passive SafetyPoint	<input type="checkbox"/>	
Active SafetyPoint	<input type="checkbox"/>	
TiltingHand	<input type="checkbox"/>	
Vibration	<input type="checkbox"/>	
Page shift	<input type="checkbox"/>	
Cradle	<input type="checkbox"/>	Not available on Ego family
Cradle with Safetypoint	<input type="checkbox"/>	Not available on Ego family
Battery charger with integrated alimentation	<input type="checkbox"/>	Only available on Ego family
Battery charger with USB	<input type="checkbox"/>	Only available on Ego family, USB cable included
Standard sticker	<input checked="" type="checkbox"/>	
Custom sticker	<input type="checkbox"/>	
Standard keyboard	<input type="checkbox"/>	
Custom keyboard	<input checked="" type="checkbox"/>	
Standard neck strap	<input type="checkbox"/>	
Custom neck strap	<input type="checkbox"/>	
COMPLIANCE MARK		
CE	<input checked="" type="checkbox"/>	
FCC	<input type="checkbox"/>	
C-Tick	<input type="checkbox"/>	
International Protection	IP66	
NOTES		
The batteries are not installed in the handheld.		

3. Controller



PART NUMBER
XS292RFYD011X



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FAMILY		NOTES
Controller Nimble	<input checked="" type="checkbox"/>	
Controller 4	<input type="checkbox"/>	
Controller 8	<input type="checkbox"/>	
Controller 8 B	<input type="checkbox"/>	
Controller 8-AC	<input type="checkbox"/>	
Controller 20	<input type="checkbox"/>	
Controller 20 B	<input type="checkbox"/>	
Controller 32	<input type="checkbox"/>	
Multiout 12	<input type="checkbox"/>	
Radio-Can	<input type="checkbox"/>	
Easy Drive	<input type="checkbox"/>	
POWER SUPPLY		
12-24 V _{dc}	<input checked="" type="checkbox"/>	
12-36 V _{ac} -V _{dc}	<input type="checkbox"/>	
Other	<input type="checkbox"/>	V _{in} =
COMMUNICATION INTERFACES		
RF 433.2 - 434.6 MHz	<input type="checkbox"/>	
RF 865.4 - 868.2 MHz	<input checked="" type="checkbox"/>	
RF 915.2 - 918.0 MHz	<input type="checkbox"/>	
RS485	<input type="checkbox"/>	
RS232	<input type="checkbox"/>	
CAN Bus	<input type="checkbox"/>	
INPUT-OUTPUT		
Master Output	<input checked="" type="checkbox"/>	
Emergency Output	<input checked="" type="checkbox"/>	
Proportional Output	<input type="checkbox"/>	
Power output number	1	Max 5 A per output
Digital input number		
Analog input number		Voltage Range in input:
Whole maximum current available on the outputs (A)	10	Fuse rated current (Ampere)
OPTIONS		
Status led	<input type="checkbox"/>	
Emergency keyboard	<input type="checkbox"/>	
External antenna	<input type="checkbox"/>	<input type="checkbox"/> Stub <input type="checkbox"/> Remote, cable length L =
Configurable	<input type="checkbox"/>	
Start Timeout (T _{start})	2 min.	
COMPLIANCE MARK		
CE	<input checked="" type="checkbox"/>	
FCC	<input type="checkbox"/>	
C-Tick	<input type="checkbox"/>	
E24	<input checked="" type="checkbox"/>	
International Protection	IP68	
NOTES		
WARNING: the device is rated IP68, hence it's not suitable for high pressure jets.		



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3.1 Connections table

PIN	COLOR	TYPE	NAME	NOTES
\	GRAY	O	M.O.	Master Output
\	PINK	O	E.O.	Emergency Output
\	GREEN	O	EV 1	Function 1
\	YELLOW	O	EV 2	Function 2
\	WHITE ¹	I	IN 1	PAIRING
\	RED	S	+ ALIM	
\	BLACK	S	- ALIM	
\	YELLOW ²	\	\	UNUSED

I: Input

O: Output

P: Proportional output

S: Power supply signal

¹: WHITE cable must be connected with BLACK cable to the negative pole of the battery when unused.

²: please carefully isolate the unused wires.

4. Functions description

DEFINITION:

- **SYSTEM START:** The working session starts by pressing the handheld **START** button. With the SYSTEM START the controller sets up the radio communication with the handheld (CloseLink). Then it is possible to activate all the system functions through the handheld.

If present the **Emergency Output** is switched ON at the SYSTEM START.

- **SYSTEM STOP:** End of the working session. The SYSTEM STOP happens in the following conditions:
 - Pressing the **STOP** button or the **EMERGENCY** button (if present) on the handheld or,
 - After T_{start} minutes in which the handheld stays unused or,
 - If the radio connection (CloseLink) falls down or,
 - Some operation is done through the emergency keyboard (if present).

If present the **Emergency Output** is switched OFF at the SYSTEM STOP.

FUNCTIONS ACTIVATION THROUGH THE HANDHELD

BUTTON	FUNCTION	CONTROLLER OUTPUTS BEHAVIOUR	MODE	S.P.
START	SYSTEM START	E.O. On	-	<input type="checkbox"/>
STOP	SYSTEM STOP	E.O. Off	-	<input type="checkbox"/>
1 (ON)	Function 1	(M.O. + EV 1) ON	L	<input type="checkbox"/>
2 (OFF)		(M.O. + EV 1) OFF	L	<input type="checkbox"/>

M: MAINTAINED function. As long as the user holds the button pressed, the correspondent output on the controller stays on. It will be switched off as soon as the user releases the button.

L: LATCHED function (or ON/OFF). The controller output stays on when the button is released. It will be switched off with the next pression of the same button.

S.P.: SafetyPoint related function. In order to enable this function the handheld must be placed close to the SafetyPoint Plate.





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With this system, simultaneous activation of two or more outputs may occur only as per the following table:

Y: possible N: not possible

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5. Wiring harness

