

## Quick Start Guide 1082 Smart Switch

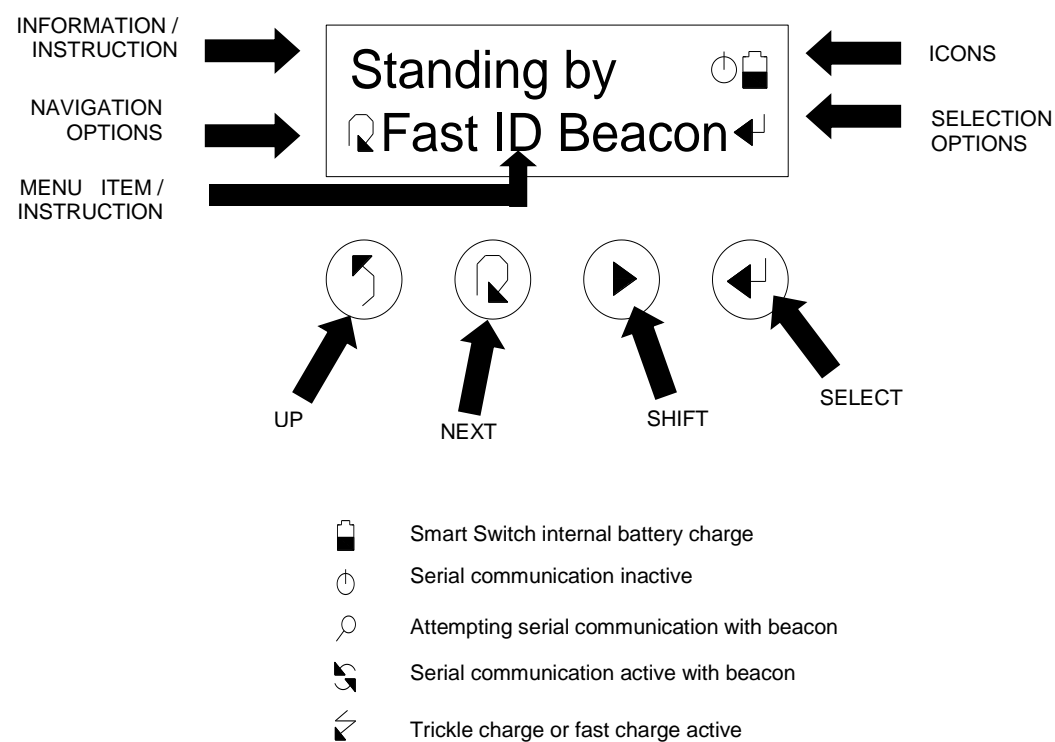
### Packing List

- 1082 Smart Switch.
- 30VDC PSU (100-250VAC mains input).  
# SB-301A2F-11
- Mains lead (IEC).  
UK / USA / EUR / Other
- Beacon Connection Cable  
# CHA-1082-4000
- Manual  
# CHA-1082-8000
- Acoustic Support Disc  
# BCN-1010-8002

### Connections



### Operation



The Smart Switch does not include a power switch; the unit is 'always on'. After two minutes of no user activity, i.e. no key presses, the Smart Switch will revert to very low power standby with a blank display. In standby, pressing any selection key will 'wake' the Smart Switch to its state prior to standby.

### Channel Configuration

- Connect 1082 Smart Switch to 1000 / 1100 series beacon using pigtail supplied.
- Switch Beacon to ON.
- Press to wake up 1082 Smart Switch if asleep.
- Press to cycle thru menus, locate - Fast ID Beacon, press to identify beacon.
- Display will indicate Beacon Model and Channel Set.
- Select Beacon Config to change beacon parameters.

### Fast Charging

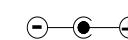
- Connect 1082 Smart Switch to 1000 / 1100 series beacon using pigtail supplied.
- Switch Beacon to CHAR.
- Connect external Power Supply to 1082.
- Press to wake up 1082 Smart Switch if asleep.
- Press to cycle thru menus, locate - Fast Charge, press to select.
- Unit will prompt for external power if not connected.
- Else press to begin charge.



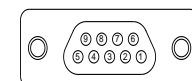
**WARNING:** - The sealed beacon must be vented to atmosphere before and after a charge cycle by manually operating the pressure relief valve (PRV). Refer to 1000 series beacon manual.

### Cabling

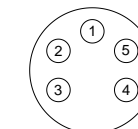
#### Smart Switch DC Input Cable

OUTER  INNER

#### Beacon Connection Cable



9-WAY 'D'



MCIL5F PIGTAIL  
FACE VIEW

9-Way 'D'	MCIL5F Pigtail	Function
2	1,5	RS232 TXD / Responder
3	3	RS232 RXD / Fast Charge
5	2	0V
9	4	Fast Charge Status / Trickle Charge

### Beacon Model and Configuration Messages

An identified beacon model and configuration is displayed as a scrolling message to the user. This message is composed from the following: -

"MDL=1019D"	Beacon model
"OPT=1,3"	Enabled options
"CFG=AAE"	AAE "channel" configuration
"CFG=SIGMA2"	AAE Sigma2™ configuration
"CFG=IXB"	iXBlue compatible configuration
"CFG=SWB"	Sonardyne Wideband™ compatible configuration

Message is completed as follows: -

#### AAE "Channel" configuration

"CH=01" AAE "channel"

#### AAE Sigma2™ configuration



"QS=1" "Quickset" configuration  
 "WUT=0" Wake-Up Tone  
 "IC=00" Interrogate Code  
 "RC=00" Reply Code  
 "TATX=0100ms" Turn-Around-Time Extension

#### iXBlue compatible configuration

"IF=19.5kHz" Interrogate Frequency  
 "RC=00" Reply Code  
 "TAT=020ms" Turn-Around-Time

#### Sonardyne Wideband™ compatible configuration

"QS=A1" "Quickset" configuration  
 "IC=CIF" Interrogate Channel  
 "ACA=0101" Acoustic Command Address  
 "TAT=062.5ms" Turn-Around-Time

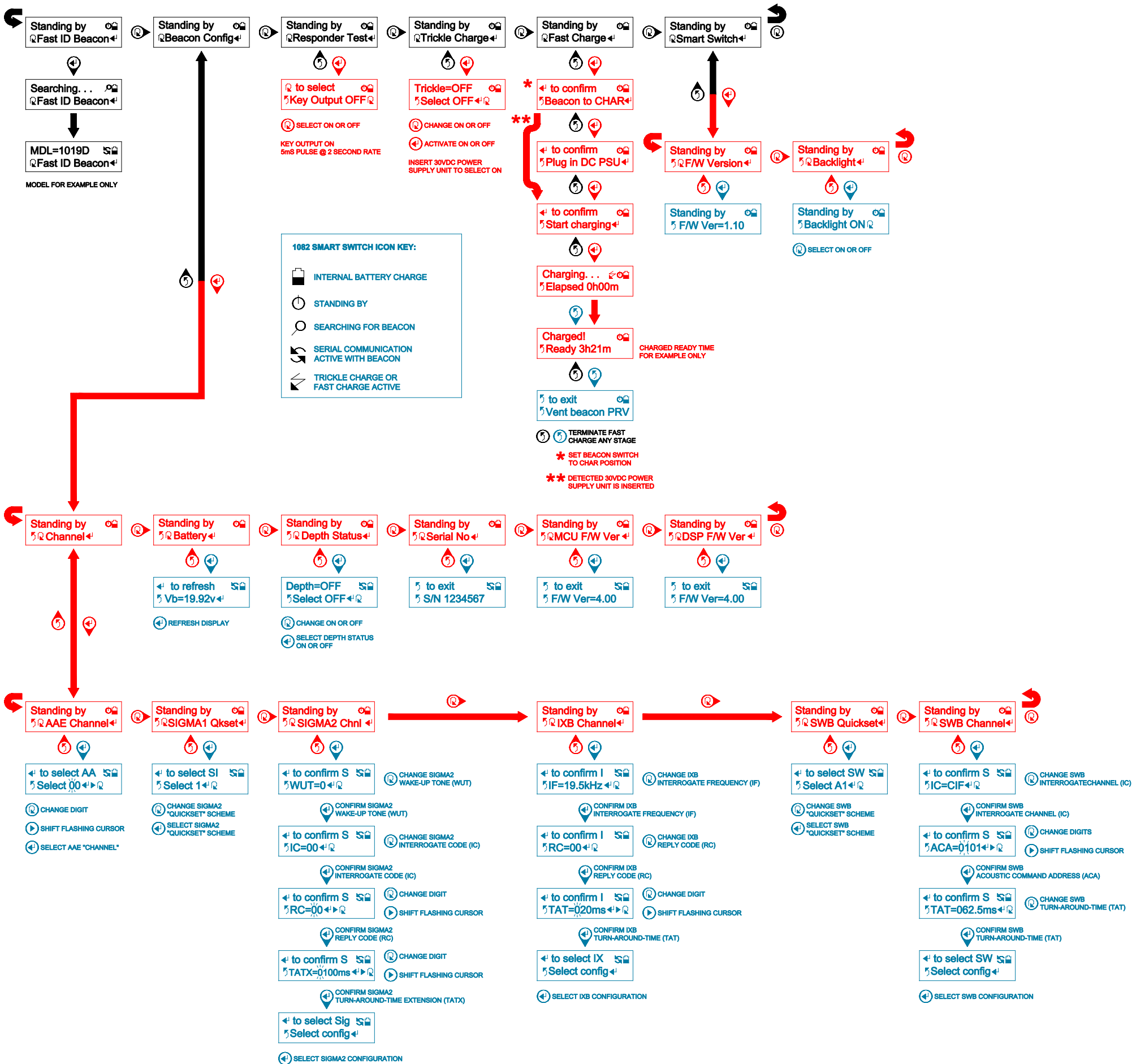
### Example

"MDL=1019D CFG=AAE CH=01"



Applied Acoustic Engineering Ltd has made every effort to ensure that the information contained in this guide is correct at time of print. However our policy of continual product improvement means that we cannot assume liability for any errors which may occur.

## Menu Guide



## Troubleshooting

Did the Smart Switch ever work?

If the answer is yes, either the battery is not charged or the Smart Switch is faulty. Look for mechanical damage and also check if the connectors are damaged.

Try resetting the Smart Switch by depressing the reset button. If there are no signs of mechanical damage, try charging the Smart Switch.

Check the 30VDC power supply unit is operational.

Check the Beacon Connection Cable for damage. Damage could affect all Smart Switch functionality with a connected compatible AAE beacon.

If cannot establish communication with a connected beacon, turn beacon off and leave for minimum of 1 minute, then turn beacon back on and retry communication.

## End of Life Recycling / Disposal

Within the EU all electronic components and batteries must be taken for separate collection at the end of their working life under EU WEEE directives. Applied Acoustics as a manufacturer within the EU will responsibly dispose of any returned end of life Applied Acoustics components / batteries through a registered WEEE scheme. In order to prevent uncontrolled waste disposal and promote re-cycling please return any end of life Applied Acoustic components shipping paid by sender to our UK head office. There may be a charge for this service. Please contact Tech Support for a RMA number prior to shipping.



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