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REMOTE CONTROL STATION (RCS) INSTALLATION INSTRUCTIONS FOR CONNECTION TO IMO SD1 INVERTER

The default settings for a new SD1 are arranged for Keypad operation i.e., using the Start/Stop buttons as well as the potentiometer for speed up / slow down.

To carry out a basic setup plus installation of the RCS proceed as follows:

- Connect a suitable motor configured to operate on 230 Volts 3-phase (DELTA connected) to terminals U-V-W & Ground.
- Connect the input single phase power 230V 50Hz to terminals L-N-Earth

ENSURE NO CONNECTIONS ARE MADE TO THE TERMINALS MARKED "+" AND "PB". THESE TERMINALS ARE FOR BRAKING RESISTOR CONNECTION ONLY AND WILL CAUSE MAJOR DAMAGE TO THE DRIVE.

- Test the drive operation using the keypad
- Stop the drive
- Turn off the power and wait for the display to go blank
- · Connect the seven pendant wires and earth screen as shown overleaf
- Turn on the power
- Press PRG/ESC
- P00 will be displayed
- Press DATA/ENT
- Press UP / DOWN arrow buttons until P00.01 is displayed
- Press DATA/ENT
- Default setting is 0. Press UP / DOWN arrow buttons until 01 is displayed
- Press DATA/ENT. The display will change to P00.03
- Press UP / DOWN arrow buttons until P00.06 is displayed
- Press DATA/ENT
- Default setting is 0. Press UP / DOWN arrow buttons until 01 is displayed
- Press DATA/ENT. The display will change to P00.07
- Press UP / DOWN arrow buttons until P00.09 is displayed
- Press DATA/ENT
- Default setting is 0. Press UP / DOWN arrow buttons until 1 is displayed
- Press DATA/ENT. The display will change to P00.10
- Press PRG/ESC. The display will show P00
- Press UP / DOWN arrow buttons until P05 is displayed
- Press DATA/ENT
- Press UP / DOWN arrow buttons until P05.01 is displayed
- Press DATA/ENT
- Press UP/DOWN arrow buttons until 01 is displayed

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- Press **DATA/ENT**. The display will change to P05.02
- Press DATA/ENT
- Press **UP / DOWN** arrow buttons until 02 is displayed
- Press DATA/ENT. Display will change to P05.03
- Press PRG/ESC twice the display is now in "running" mode
- Press the **START** button on the RCS pendant
- It is now possible to start/stop, reverse and alter the speed of the motor from the RCS remote control. The keypad will cease to function apart from changing parameters.

PENDANT CONNECTIONS TO THE SD1 DRIVE. BEHIND FRONT COVER

Wire Colour	Terminal Designation	Function
BROWN	COM (same as Green cable)	Power
WHITE	S1	Forward
GREY	S2	Reverse
PINK	+24V	Power
BLUE	10V	Potentiometer (High Side)
YELLOW	Al2	Potentiometer (Centre)
GREEN	COM (Same as Brown cable)	Potentiometer (Low Side)
Green/Yellow	Ground	Earth Screen



Fig 1 - SD1 Control terminal connections

If there is a requirement to connect limit switches or additional stop buttons, these should be connected using normally closed contact devices connected in series to interrupt the PINK +24V supply wire.

When the supply to the pendant is momentarily interrupted the drive will stop