

DAB E.Box

Sewage Pump Control Panel

Revision 1.0 - 29th November 2021

INTRODUCTION

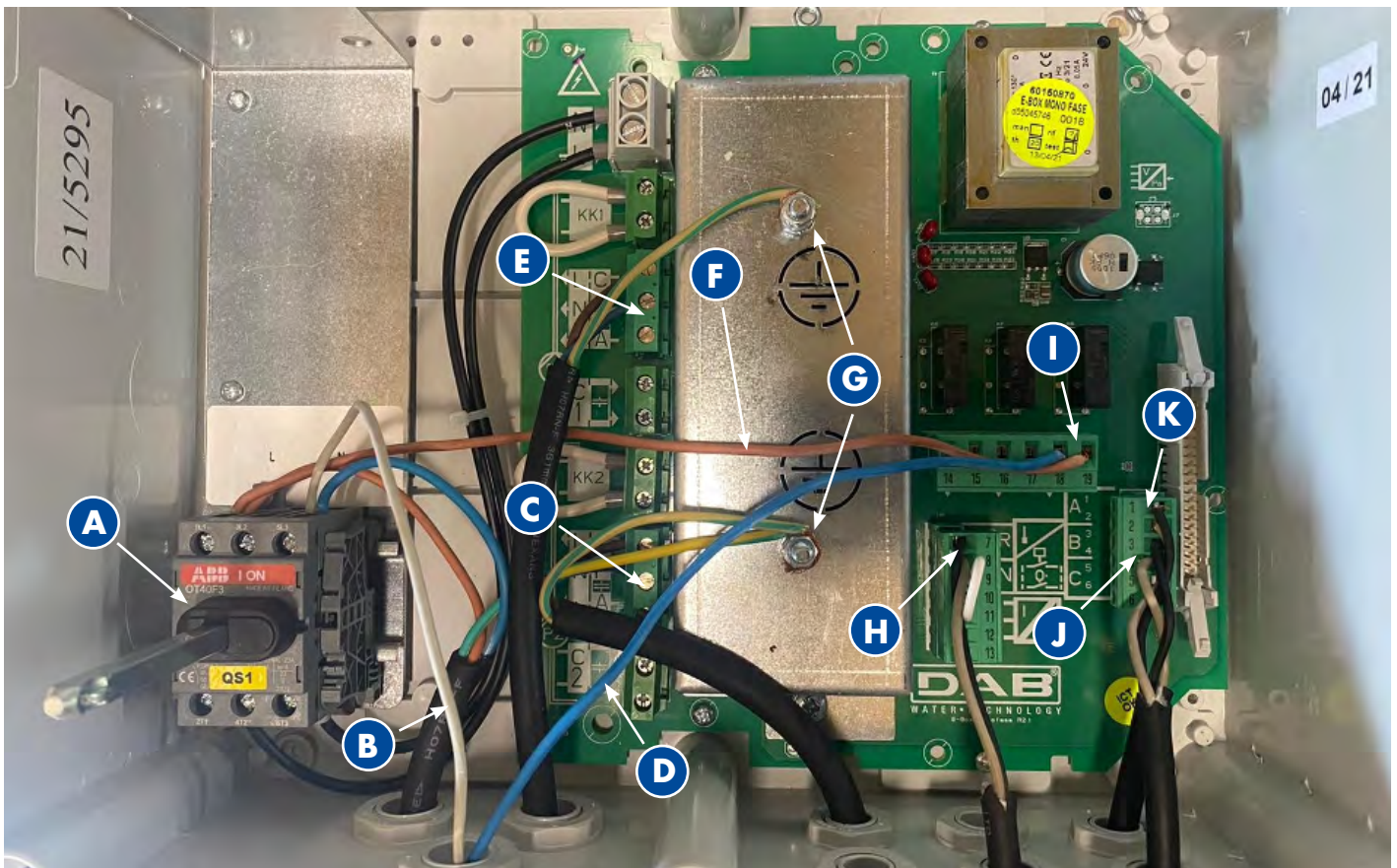
The [DAB E.Box](#) is an electronic control panel for the protection and automatic operation of one or two submersible pumps installed in domestic, civil and industrial environments. The panel is best paired with dual [Newton pumps](#) within sewage and foul pumping systems – it is simple to install and provides a robust solution for sewage pumping systems, enclosed in an IP55 rated casing.

Newton supplies the E.Box Basic D which, thanks to its capability of adjusting the current, is compatible with all pumps with a current between 1 amp and 12 amps (A), and with power up to 2.2 kilowatts (Kw).T

The E.Box is available via Newton thanks to our partnership with DAB, who for over 40 years have been a leading player in the areas of water technology, management and movement.

INTERNAL WIRING ILLUSTRATION

The below image illustrates the correct internal wiring of the DAB E.Box Basic unit, controlling two pumps with a three-float system and alarm sounder.



- A - Mains power isolator switch
- B - White wire from isolator switch negative (N) terminal to sounder terminal
- C - Pump 2 live and negative terminals
- D - Blue wire from terminal 18 to sounder terminal
- E - Pump 1 live and negative terminals
- F - Brown wire from isolator switch live (L) terminal to terminal 19
- G - Earth wire connections
- H - Alarm float (RN) terminals 7 and 8
- I - Alarm sounder terminals 18 and 19
- J - Start and alternate float (B) terminals 3 and 4
- K - Stop float (A) terminals 1 and 2

230V MAINS POWER CONNECTION

- Brown wire into the Live (L) terminal of the isolator switch
- Blue wire into the Negative (N) terminal of the isolator switch
- Green and yellow wire (Earth) connects to either one of the two bolts/nuts marked by the Earth symbol

PUMP CONNECTION

PUMP 1

- Brown wire into the Live (L) terminal of Pump 1
- Blue wire into the Negative (N) terminal of Pump 1
- Green and yellow wire (Earth) connects to either one of the two bolts/nuts marked by the Earth symbol

PUMP 2

- Brown wire into the Live (L) terminal of Pump 2
- Blue wire into the Negative (N) terminal of Pump 2
- Green and yellow wire (Earth) connects to either one of the two bolts/nuts marked by the Earth symbol

PUMP FLOAT CONNECTIONS

FLOAT 1 (The Stop Float)

- Black wire into (A) terminal 1
- Grey wire into (A) terminal 2

FLOAT 2 (the Start and Pump Alternating Float)

- Black wire into (B) terminal 3
- Grey wire into (B) terminal 4

ALARM FLOAT

- Black wire into (RN) terminal 7
- Grey wire into (RN) terminal 8

Please note: The brown wires on the floats can be cut off.

ALARM SOUNDER

Firstly, the alarm sounder needs to be fitted into the front of the panel. This is achieved by using a core cutter, then pushing the sounder through the cut hole and securing it in place using the plastic washer nut provided with the sounder. Then follow these steps:

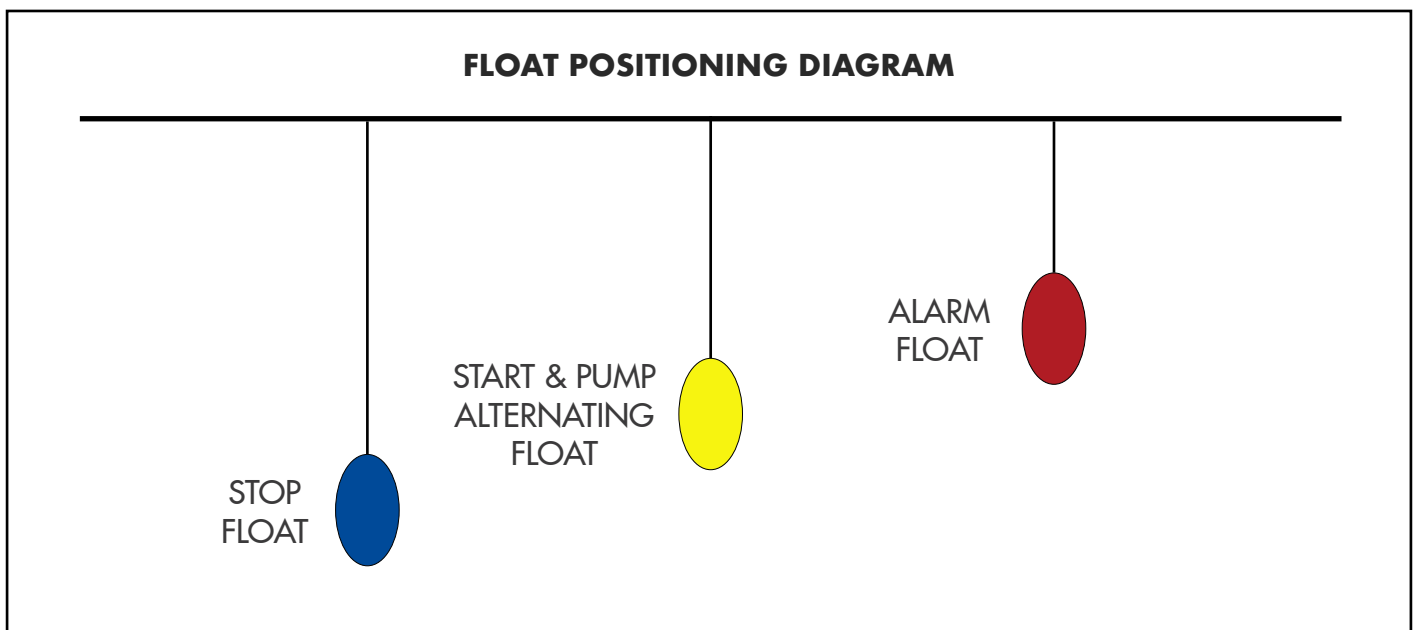
- White wire from Isolator Switch Negative (N) terminal to sounder terminal
- Blue wire from terminal 18 to sounder terminal
- Brown wire from Isolator Switch Live (L) terminal to terminal 19

Please note: These wires are not provided and will need to be provided by the installer.

DIP SWITCHES

The dip switches (DS-A and DS-B) are located at the bottom of the panel. Please ensure that:

- Number 3 on DIP switch (A) needs to be push to the On position
- Number 3 on DIP switch (B) needs to be push to the On position



Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](http://www.newtonwaterproofing.co.uk) for the latest versions.