

# e.box

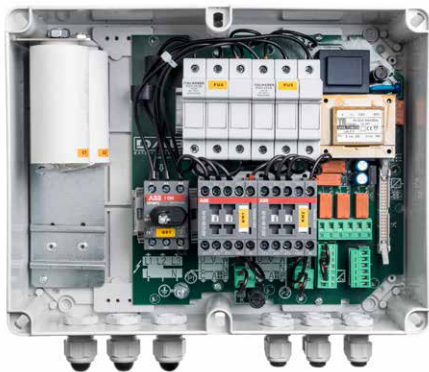


## ELECTRONIC CONTROL PANELS

**DAB**  
WATER • TECHNOLOGY

The new series of control panels from e.box have been developed for guaranteeing reliability and simplicity of installation.

Thanks to the technological know-how of **DAB**, founded upon 40 years of experience in the sector of mechanics and electronics, to protect and command the systems of pumping has never been so easy.



**e.box plus** is an electronic control panel for the protection and automatic operation of one or two submersible pumps or pressurizing both single-phase and three-phase, installed in domestic, civil and industrial environments. Thanks to the possibility of adjusting the current, **e.box** is compatible with all models of pumps with a current between 1 and 12A with power up to 5.5Kw as reported by the products compatibility chart.

## TECHNICAL DATA PLUS

**Nominal tension of power supply:** 1x230 V - 3x230 V & 3x400 V (automatic selection)

**Frequency:** 50 - 60 Hz

**Maximum use of power:** 5,5 kWatt + 5,5 kWatt

**Maximum use of current:** 12 A + 12 A

**Starting capacitor - KIT supplied as an accessory**

**Limits of use ambient temperature:** -10° C + 40° C

**Limits of storage temperature:** -25° C + 55° C

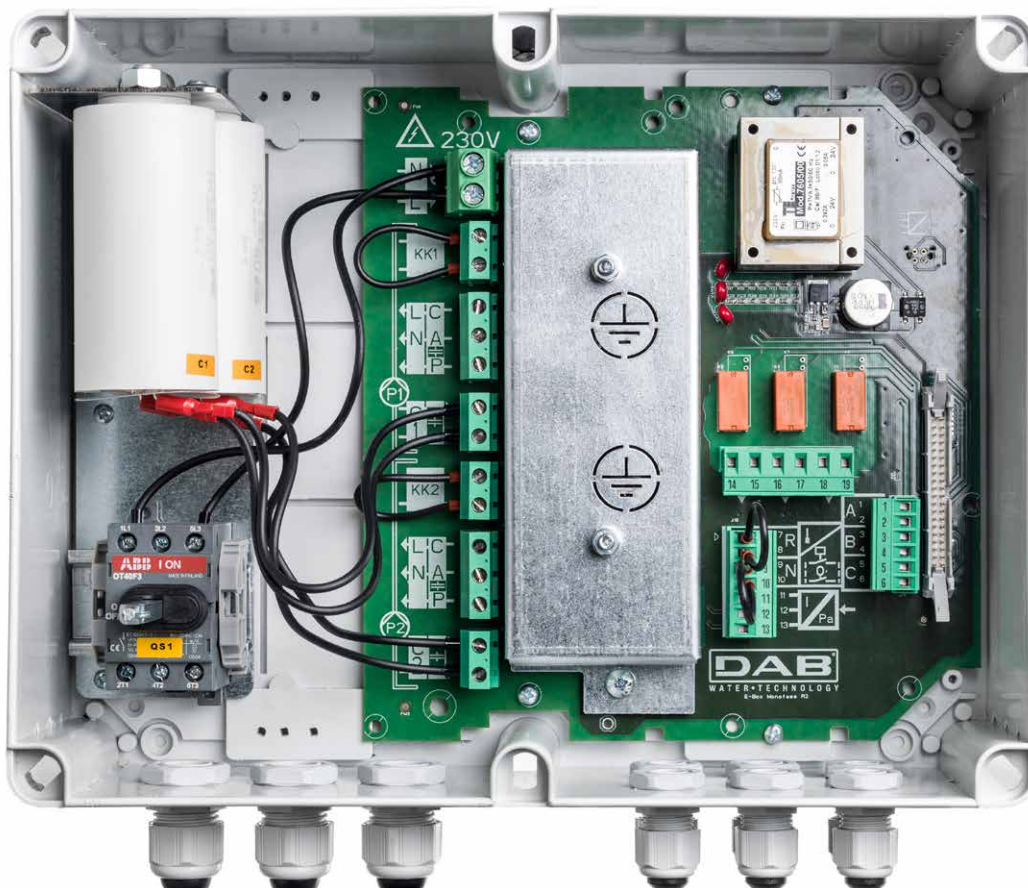
**Relative humidity to the air:** 90% a 20° C

**Max altitude max:** 100 s.l.m.

**Degree of protection:** IP 55

Reference standard for the construction of the panels EN 60335-1

# RELIABILITY AT YOUR COMMAND



**e.box basic** is an electronic control panel for the protection and automatic operation of one or two electronic submersible pumps or single-phase pressurization for domestic applications. The **e.box** panel is compatible with all models of pumps with current between 1 and 12 A with power up to 2.2Kw as reported by the products compatibility chart.

## BASIC TECHNICAL DATA

**Nominal tension of power:** 1x230 V

**Frequency:** 50 - 60 Hz

**Maximum power range of use:** 2,2 kWatt + 2,2 kWatt

**Maximum operation of use:** 12 A + 12 A

**Starting capacitor - KIT supplied as an accessory**

**Limits of use ambient temperature:** -10° C + 40° C

**Limits of use storage temperature:** -25° C + 55° C

**Relative humidity to the air:** 90% a 20° C

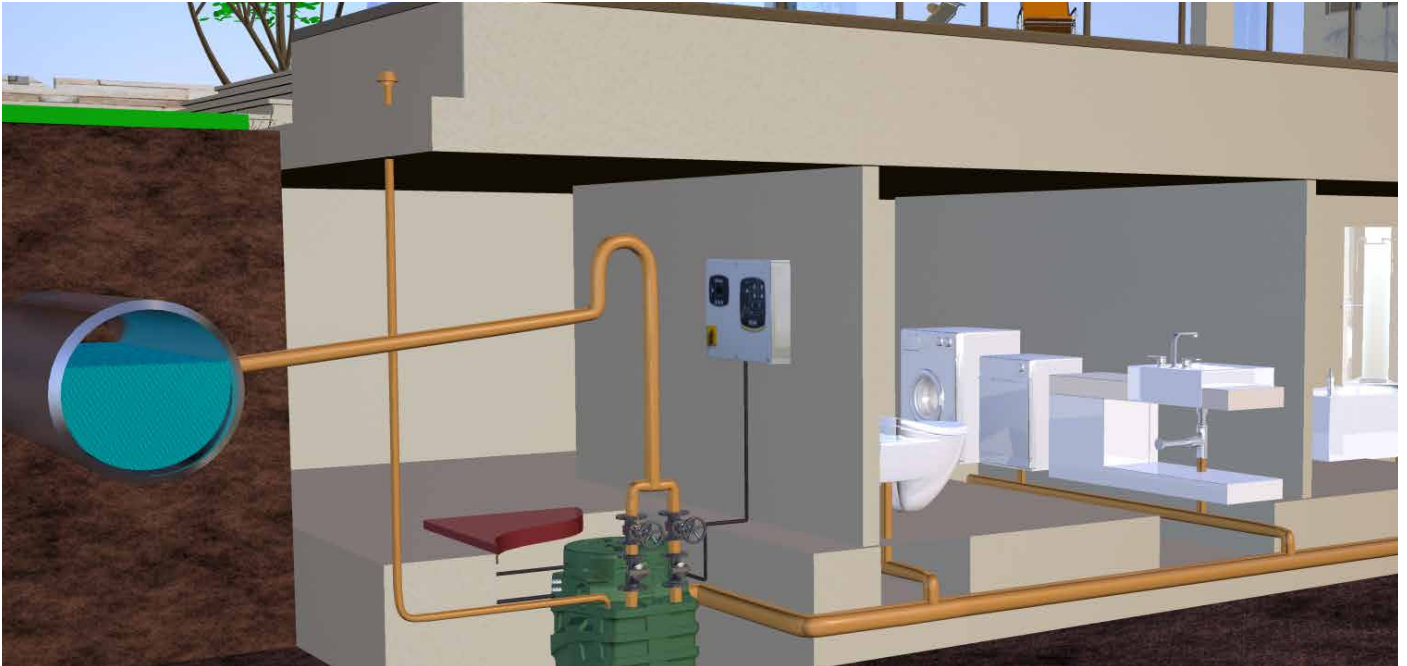
**Max altitude:** 100 s.l.m.

**Degree of protection:** IP 55

Reference standard for the construction of the panels EN 60335-1



## EMPTYING/FILLING FUNCTION



Ideal for piloting the pumping stations of filling / emptying the drainage of rainwater or waste water in general.

- Operation with bulb floats or standard, max 5 (2/3 for operation, 2 for alarm)
- Operation with level trasducer (0-10V / 4...20mA)
- Exchange of the starting order of the pumps at every start, every 24 hours or at predefined intervals.

## PRESSURIZATION FUNCTION





















Ideal for piloting the pressurization groups

- Operation with pressure switches, max 4 (2 for operation, 2 for protection)
- Operation with pressure sensors (0-10V / 4...20mA)
- Exchange of the starting order of the pumps at every start, every 24 hours or at predefined intervals.
- Compliant with KIWA requirement.



# VERSATILITY AT YOUR COMMAND

## PRODUCTS TABLE

	e.box plus D	e.box basic D	e.box plus	e.box basic
				
DISPLAY	●	●		
ELECTRICAL DATA	1 x 230 V / 3 X 230 - 400 V 50 - 60 Hz - 5,5 kW	1 X 230 V 50 - 60 Hz - 2,2 kW	1 x 230 V / 3 X 230 - 400 V 50 - 60 Hz - 5,5 kW	1 X 230 V 50 - 60 Hz - 2,2 kW
FEKA 600				
FEKA VS - VX - GL				
FEKA 1400 - 1800 - 2000 - 3000				
GRINDER				
DIG				
2 JET - 2 EURO - 2 EUROINOX - 2 K - 2 KVC				
2 NKV 15/20				

## ACCESSORIES

	<b>ORANGE FLASHING LIGHT 230V</b> equipped with a 5W incandescent bulb		<b>FLOAT ON/OFF</b> 2 wire NO/NC Bulb or standard available with 5, 10, 20 meters of cable 3x1 H07RN-F
	<b>ELECTRODE PROBE</b> Suitable for conductive liquids with a maximum temperature of +40°C To be connected with a 1,5 mm <sup>2</sup> cable - 550V insulation Sensibility ≤ 53 Kohm		<b>LEVEL TRANSDUCER</b> Pressure sensor for applications with clean and sewage water. Calibration range: 0-0,5 bar / 4-20 Current rating/ Voltage 8-32VDC / cable 20m
	<b>PRESSURE SWITCH FOR PROTECTION AGAINST DRY RUNNING</b>		<b>CAPACITOR KIT</b>



## 3" DISPLAY

- Step-by-step guides the installer during the first installation settings
- Allows the consultation of all historical errors of the pumps and panels
- Facilitates monitoring of pumps and sensors and the setting of levels of start/stop of the pumps
- Allows the choice of language and a password to block the settings made



## BASIC SINGLE-PHASE MODEL

In typical domestic installations where the needs are different, there is E.BOX BASIC (single-phase only) in the version with or without display, with all the features of the PLUS costing less.



# TECNOLOGY AT YOUR COMMAND



## AUTOMATIC VOLTAGE SELECTOR

With just one model in stock, it will be possible to manage in a completely automatic way both single and three-phase pumps.



## NEW PUSH BUTTON

With the new user interface e.box is now more intuitive and immediate. Understanding the status of the pumps and the errors related to them or the system has never been easier.



## PREDISPOSED FOR THE MONITORING VIA GSM

It is possible to connect to a GSM card to check via SMS the status of the pumps and the panels.

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