



The iCON iSUB22 is a variable speed drive to enhance the performance of **240V THREE PHASE bore hole** pumps up to 1.5 kW or surface mounted 6 wire reconnect able three phase pumps to 2.2kW, 10A. The drive has 240V single phase input.

The iCON iSUB22 eliminates the requirement for large pressure tanks and pressure switches used for automatic operation as well as associated pressure cycling.

The iCON iSUB22 provides both the ability to conserve energy through only operating the pump according to the speed required to maintain constant pressure and further allowing for multiple set points to be met.

The iCON iSUB22 is equipped with an easy to use LCD display and is completely designed and built for controlling pump systems from the ground up.

The variable speed drive is mounted within a weather proof fan ventilated enclosure and is supplied with a manifold, pressure gauge and pressure transducer for easy installation.

**Some advantages of the iSUB systems are:**

- Greater comfort due to constant pressure
- Optimises pump flow while minimising energy consumption
- Elimination of overpressures
- Greater life of electric pump
- Easy installation
- Dry run protection
- Minimum speed selection
- Various supply fault alarms including high pressure, low pressure, low level, transducer error
- As many as 22 types of fault protection including over and under voltage, over current, etc.

**Conformity:**

- Verification of EMC compliance certificate no. AC/0410709 to EN 61326-1:2006, EN 61000-3-2:2005, EN 61000-3-3:1995+A1:2001+A2:2005.
- Verification of LVD compliance certificate no. AC/0420709 to EN 61010-1:2001, EN 61000-3-2:2005, EN 61000-3-3:1995+A1:2001+A2:2005.
- Verification of LVD compliance certificate no. AC/0420709 to EN 61010-1:2001.

**2 Year iCON Series Drive Warranty**

**Technology Features - Input & Output**

- \* Input Voltage Range 240±15%
- \* Input Frequency Range 47~63Hz
- \* Output Voltage Range 0~rated input voltage
- \* Output Frequency Range 0~50/60Hz
- \* Digital Switch Input 3 input
- \* Analogue Signal Input - AI1:0~10V or 0~20mA input; AI2: 0~10V or 0~20mA input
- \* Relay Output A pair of switched Outputs

**Function Characteristics**

- \* Sleep Function - Sleep down when there is no water consumption, to earn a better energy saving
- \* Freeze-Proofing Function - Suitable for low temperature area, prevent pump from freezing
- \* Anti-clogging Function - take precaution against pipe clogging and clean the pipe dirt
- \* Power On Restart - Running automatically when power on
- \* Day-Part Function - 3 independent day-part control, up to 7 day-part achieved when define separated
- \* Terminal Control Mode
  - Terminal Run/Stop
  - Manual/Auto Control
  - Electronic Contact Gauge Control