

# tekspeed

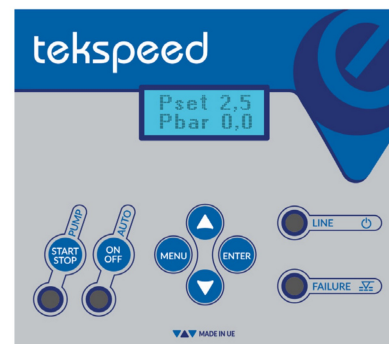
Frequency inverter for controlling a single-phase or three-phase pump, with wall mounting

Tekspeed is an electrical control and protection panel for a single-phase or three-phase pump with frequency inverter.

Available in versions with power supply:

- 230vac single-phase input and 230vac single-phase output;
- Single-phase 230vac input and 230vac three-phase output;
- 400vac three-phase input and 400vac three-phase output;

Tekspeed inverters can be mounted individually for the control of a pump, or in multipump systems up to 2 MASTER-SLAVE devices with alternating logic and contemporaneity.



Multifunctional LCD control panel

- Indication LEDs, START-STOP, AUTOMATIC buttons
- Configuration system

## Versions:

1112 MM | 1010 MT | 1305 TT | 1309 TT | 1314 TT

## TECHNICAL FEATURES

	1112 MM	1010 MT	1305 TT - 1309TT - 1314TT
Input voltage	~1 x 230 Vac	~1 x 230 Vac	~3 x 400 Vac
Output voltage	~1 x 230 Vac	~3 x 230 Vac	~3 x 400 Vac
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Max.current	12 A	10 A	5 A - 9 A - 14A
Overcurrent	20% 10"	20% 10"	20% 10"
Pressure range	0,5 ÷ 25 bar	0,5 ÷ 25 bar	0,5 ÷ 25 bar
Protection degree	IP65	IP65	IP65
Analog input	4-20 mA	4-20 mA	4-20 mA
Ambient temperature Max.	50 °C	50 °C	50 °C
Weight	3,5 kg	4,5 Kg	4,5 kg
Cooling system	Forced ventilation	Forced ventilation	Forced ventilation

## MAIN FEATURES

- Frequency inverter with PID logic
- Multifunction LCD display for visualization: nominal pressure, voltage, current, frequency, working hours, number of starts and alarm history log
- Buttons for custom function selection and parameterization
- ART function (Automatic Reset Test). When the control panel is in dry run protection, ART tries, with a programmed periodicity, to restart the pump until the water flow is re-established
- STC function (Smart Temperature Control): when the temperature of the electronic board exceeds 85° C automatically decreases the frequency of revolution of the pump, decreasing the heat generation, while maintaining the flow of water
- Automatic system recovery after power failure. The system restarts maintaining the configuration parameters
- MASTER-SLAVE operation mode where up to 2 devices can be connected in cascade and start-up sequence alternating
- Configurable electronic input for: external level control, assigning a second pressure setpoint, remote control start-stop
- Input for external pressure transducer with 4-20 mA signal
- Aluminium heat sink with forced ventilation

## PROTECTION

- Electric pump control and protection system against overcurrent.
- Dry running protection system of the electric pump.
- Abnormal supply voltage.
- Short circuit between system output phases.
- Pressure transducer error alarm.

