

COMPARISON ACT200TH AND P0022E10 (OEM CARD CONTROLLER) OEM 100 BOARD

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situation

- The ACT 200 TH turbo controller (PN:200004, 200055, 804937) has been discontinued, the only alternative to controlling ATP/MDP Adixenline ball bearing turbos is now the “OEM card controller” (PN:P0022E10)
- We will continue to service the ACT200TH - maintenance and parts supply for up to 7yrs – 2024
- There may be a possibility that we will run out of certain parts, we will keep a small pool of backup units to ensure our support capabilities during the standard one year warranty.

ACT200TH



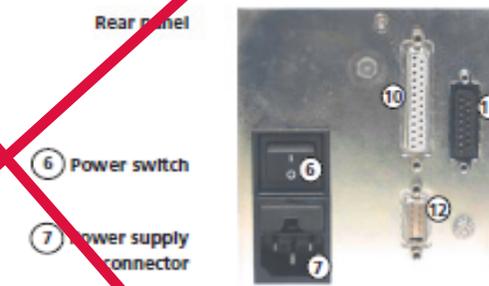
ACT 20x TH controller
Front panel



- Indicator lights ①
- Start/Stop button ③

- ② LCD display
- ④ Setting buttons
- ⑤ Standby button

Rear panel



- ⑥ Power switch
- ⑦ Power supply connector

- ⑩ Input/output connector (I/O)

- ⑪ Pump connector

- ⑫ RS232/RS485 connector

Wiring characteristics  B 430.

- Inputs for the remote control of START, STOP, STANDBY, REMOTE, Running-In functions.

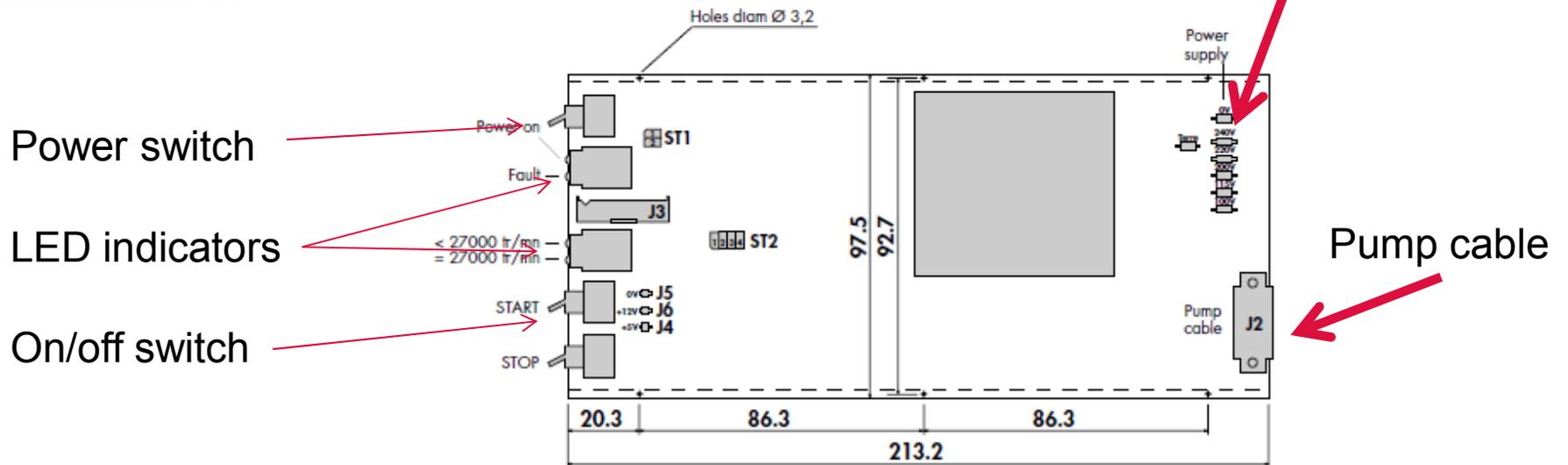
- Outputs for pump monitoring parameters available in form of dry contacts (running-in mode, pump operating, copy of start command, standby mode, fault, at speed).

Wiring characteristics  B 450.

The RS 232 serial link is used to control and monitor the pump using a computer.

The RS 485 serial link allows the installation of several pumps in a network.

Replacement: P0022E10 'OEM Board'



General comparison



Controller	Pump
ACT 200 T	ATP 80/100
ACT 600 T	ATP 150/400
ACT 1000 T	ATP 900

Features

- Automatic power supply detection from 100 to 240V 50/60Hz, single phase
- Menu operation

Sophisticated pump monitoring

Display of:

- Rotational speed
- Pump current consumption
- Pump and controller temperature
- Total running time
- Pump fault detection
- Diagnostic mode with last ten alarm codes

Control of:

- Rotational speed
- venting
- Auto start
- Start delay
- Maintenance schedule

Multiple interfaces

- PC/PLC controlled processes via RS 232/485 (configurable)
- Remote control

Inputs:

- Remote start/stop
- Remote stand-by
- Remote interlock

Outputs:

- Pump starting
- Pump at speed
- Standby on
- Venting valve on/off
- Power supply of air cooling fan
- Selectable 0-10 volts output (speed/pump current/temperature)

ACT 100 OEM board

- Power supply: 100, 115, 200 - 230 V selectable
- Dimensions: 213.2 x 97.5 x 96.5 mm (8.39 x 3.84 x 3.80 inches)
- Features: ON/OFF Switch, Status LEDs
- Remote control: ON/OFF



Detailed comparison

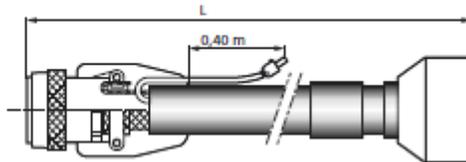
	OEM Board	ACT200TH
Applicable pumps	MDP5011, ATP80/100	MDP5011, ATP80/100, ATH200
	P/N P0022E10	200004, 200055, 804937
Size	212 x 98 x 76.5 mm	1/4 Rack
Power Requirement	100,115, 200-230V Selectable (50/60Hz)	85-264 VAC (50/60Hz)
Features	4 LEDs - power, pump starting, pump at speed and fault	4 LEDs - power, pump starting, pump at speed and fault
		Digital display, user-friendly menu operation, Display of rotational speed, pump current consumption, controller temperature, fault detection, running hours, memory of last 10 alarm codes.
Communication Interface	remote control	Front panel, RS232/485 or remote control
Remote Control Inputs	Start/stop	Start/stop, standby, running-in program
Remote Control Outputs	On/off, at speed, operating	Open collector outputs (additional hardware required, customer supplied): Fault, speed pulse, operating, analog output and at speed, plus two configurable outputs (dry contact relays): Running-in, operating, start, stand by, fault, full speed, vent valve closed, 0-10V analog.
Front Panel/Local Mode Inputs	N/A	Start/stop, rotational speed, standby speed, venting, auto start, start delay, maintenance schedule

Interconnecting cable p/n's (you will need new cable)

ACT200TH to MDP 5011

Interconnecting cables

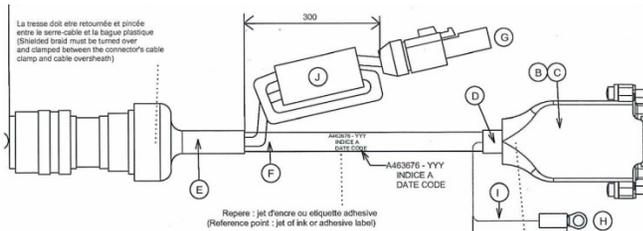
Interconnecting cables between the pump and controller.



Length L (m)	Part number	
	ATH 200 / ATP 80/ ATP 100 Pumps	MDP 5011 Pump
1	A463207-010	A463676-010
1,5	A463207-015	A463676-015
3,5	A463207-035	A463676-035
5	A463207-050	A463676-050
10	A463207-100	A463676-100
20	A463207-200	A463676-200

P0022E10 OEM Board to MDP 5011

Length L (m)	MDP 5011
	P/N
0,5	A461868-005
1	A461868-010
1.5	-
2,5	A461868-025
3	-
3,5	A461868-035
5	A461868-050
7	A461868-070
10	A461868-100

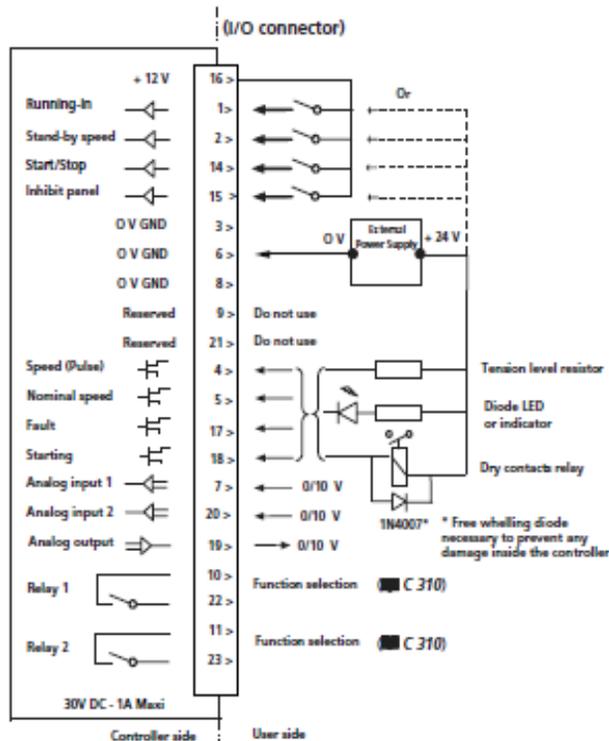


Remote connector comparison

ACT200TH

P0022E10 OEM Board

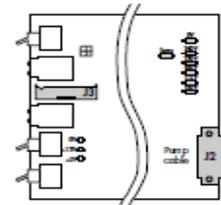
Remote connector wiring



Remote control mode

Depending on P2 power supply cable connector wiring, the pump Start/Stop and an external safety can be remote controlled.

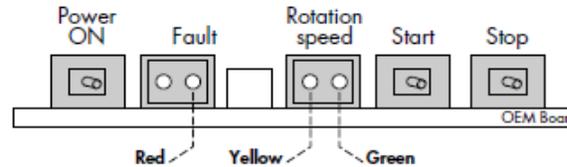
J3 connector allows the copy of the pump status data (equivalent to light indicators green-red-yellow) (*voir folio 1*).



Description	P2 connector wiring*
Without remote control outer safeties	
Pump Start/Stop remote control (by impulse contacts)	
Pump Start/Stop remote control (by maintained contact)	
Outer safety switch wiring	
Outer control	

P0022E10 switch and indicator light description

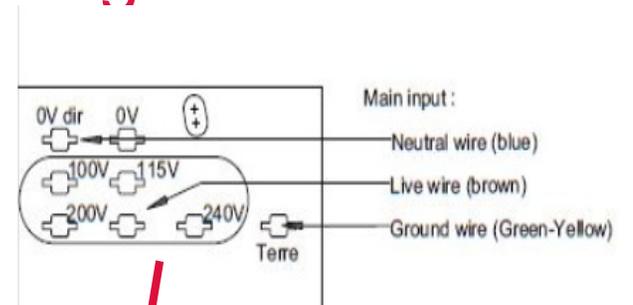
Local mode operation Power "ON" and pump "Start/Stop" functions are made using switches located on the PC Board.



The detection of the pump operation is materialized by three indicator lights (green, yellow, red) which indicate the pump status (light ON = 1; Light OFF = 0).

	Action on button		Pump motor powered	Pump rotation speed*	Pilot lights		
	START	STOP			Yellow	Green	Red
1 Before starting	0	0	NO	0	○	○	○
2 Starting	1	0	YES	< 27000	⊙	○	○
3 Pump at nominal speed	0	0	YES	= 27000	○	⊙	○
4 Incident** Overheating due to pump or converter	0	0	NO	↘ 0	⊙	○	⊙
5 Overloading	0	0	YES	< 27000	⊙	○	○
6 Pumping stop	0	1	NO	↘ 0	○	○	○

P0022E10 Input voltage wiring diagram



Remote interface

