

## Pump Drive Assembly (PDA) Description and Options

n addition to the standalone pump heads and Fuji-Techno's own portable units, we are able to offer a wide range of solutions for laboratory and factory based applications.

## Pump Drive Assembly (PDA)

The PDA comprises a HY series pump mounted on a base plate with the driving elements including a gearbox, servo motor and coupling. The servo drive is typically supplied loose for integration into the local control panel.

The PDA can be supplied with pre-confectioned cable sets and the software commissioning tools for the servo drive.

#### Supply options

All drive options require a rectified 24Vdc supply for the drive logic. Current rating per drive is ~1Amp.

The following supply options are available for the power stage:

 Low voltage DC (24-48V), up to HYSA-12

- Single phase 110...230Vac mains, up to HYSB-20
- Three phase 230...480Vac mains

#### **Control options**

As standard the motor/pump speed can be controlled via an analogue signal 0...10Vdc, the CANbus interface, USB and EtherNET (also via the commissioning software) or digital inputs (pre-defined speeds).

#### Other options include:

- 0...20mA or 4...20mA via converter
- ProfiBUS
- ProfiNET
- EtherCAT
- PowerLINK (opt. on SOj)

### Decentralised drive options (not suitable for ATEX)

In addition to the separate servo drive module for integration in to a control cabinet, we also offer drives mounted on the motor, up to the HYSA-12 pump size:

- Low voltage DC, 24-48V
- Single phase, 230Vac

#### **Environmental options**

The pump, motor, gearbox and coupling are all IP54 rated (or higher), making them suitable for exposure to low pressure, non-corrosive, liquids.

If required we can provide increased protection:

- IP67
- Washdown rated IP69k
- ATEX 3G and 2G compliant

#### Additional options

We also offer associated components to aid integration of the PDA:

- 24Vdc power supplies
- Low inductance cables for increased cable length between motor and drive
- ATEX terminal boxes

### Pump Control Station (PCS)

The PDA can be supplied integrated in to our Pump Control Station (PCS) and incorporates a touch-screen panel and control electronics to enable operation of the pump.

#### Typical applications include

pharmaceutical and chemical processing • urethane and other resins • chromatography
 explosives, • food processing • film • spraying and coating applications • cosmetics • line mixing for liquids • in-feed for extruders • water treatment

# Pump Drive Assembly (PDA) Specification Sheet

			_			
ARS servo drive - Option	1 Application Area	3	Contr	Control Options		
<u>Stand Alone</u> ø1 / 100230Vac ø3 / 230415Vac	Laboratory Pilot Plant Production					
3.				<u>Inputs</u> efined speeds)		
AND TOTAL TO			RS232 RS485	max 2m)		
Power (PWR) Resolver (RES)			FieldBl CANbu ProfiBl ProfiNl EtherC Power	is JS ET		
//    -		Connection		ections (control to dr	ive)	
	onnections  rive/motor)		Distan	ce		
	rect $\square$ via TB $\square$ commended for ATEX)			DIS-2 servo drive - Option 2 Integrated (on motor)		
Dr	ive to TB / to Motor /			DC, 48V ø1 / 230Vac		
		HY Pur	mp Unit			
Environmental			Flow Rate			
ARS servo drive (option 1) only: ATEX 2G (Zone 1 & 2) ATEX 3G (Zone 2 only)			re _			
				Additional options		
Specification agreed, date				24Vdc power supplies □		

Low inductance cables

Name / Signature



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UK and European distributor for the Fuji-Techno range of Super-Metering-Pumps

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