



Accurate Speed Control

FMI RH-ASC / BM
BM-FMI
QP-pumps



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User Guide

What is in the box

- 1 ea Pump Unit with inbuilt electronic for DC motor control and timer and FMI pump head mounted on the front panel.
- (24VDC, 30W)
- 1 ea Power Supply (Input 100-240VAC, 50/60Hz, 800mA. Output 24VDC, 35VA)
- 1 ea User Guide
- Customised remote cables, foot pedals or other accessories may added on request

WARNING!

**No other parts will be used for this system except parts delivered from Oina VV AB!
Oina VV AB is not responsible for any injury or damage caused by misconduct!**

How to set up the ACCURATE Speed Control BM / FMI system

- Connect the enclosed Power Supply to the Pump Unit, and then connect the Power Supply to the main power, 100VAC or 230VAC, (100-240VAC, 50/60Hz, 800mA)
- Connect remote control cable or foot pedal or other accessories if requested
- First time:
 - Factory default setting:
 - Red LED with **STOP** is switched on.
 - Green LED with "INT-SPEED" switched on.
 - 50 % Speed is chosen.
- Now you are ready to run the pump as a continuous metering pump.
 - Press **FWD** button to run in forward direction or press **REV** button to run in reverse direction.
 - Adjust speed from 5-100% in steppes of 1% via **+** and **-** press buttons.
 - For momentary flush the pump, press **MAX** button.
- The Pump Unit will remember the last setting when it will be reconnected next time to main power or after power failure.

Functionality in MODE

- **TIMER:** 1-999 seconds in steps of 1 second
- **COUNTER:** Not available function on this Pump Unit!
- **INTERNAL SPEED CONTROL**
- **EXTERNAL SPEED CONTROL:** For communication with process instrumentation via 0-20mA or 4-20mA
- **I/O CONFIGURATION:** Set up for RS232. This function is not available on this Pump Unit!
- **RATIO/DIR:** Factory set up configurations for different motors, gear ratios and for main direction. Users are not able to make changes!

How to set MODE functions

- **Timer-Dispensing**

Press **MODE** button multiple times until green LED lights up with **TIMER**.

(First time you press **MODE** the red LED will be switched off!)

Set dispensing time via **+** and **-** buttons from 1-999 seconds.

Press **STOP** to confirm your choice of dispensing time.

Red LED with **STOP**, and the green LED's with "TIMER" and with "INT-SPEED" will be switched on to confirm your choice.

Adjust speed from 5-100% in steps of 1% via **+** and **-** press buttons.

Press **FWD** button for each dispensing in forward direction or press **REV** button for each dispensing in reverse direction.

- **To leave Dispensing and go back to Metering function**

Press **MODE** button multiple times until green LED lights up with "INT-SPEED" (or "EXT-SPEED" if external speed control is chosen).

Set dispensing time to 000

Press **STOP** button to confirm.

Red LED with **STOP** button, and green LED's with "INT-SPEED" (or "EXT-SPEED" if external speed control is chosen)

will switch on to confirm your choice.

Adjust speed from 5-100% in steps of 1% via **+** and **-** press buttons.

Start metering via **FWD** or **REV** press buttons.

Remote Control Functions via 15 pin D-sub

External Speed Control

Press **MODE** button multiple times until green LED lights up with “EXT-SPEED”.

Scroll in-between - - -, **0.20** and **4.20** via **+** and **-** press buttons:

- - - means “INT-SPEED” (Factory set)

0.20 means external speed control via 0-20mA signal

4.20 means external speed control via 4-20mA signal

When right choice shows, press **MODE** button to confirm.

External Start

Run FWD or run Rev

**Start dispensing FWD or start dispensing REV
via customised cable, switch or foot pedal!**

Counter function and RS232 via 9 pin D-sub, for this pump is not in function

For external speed control, see users manual attached to customised cable!

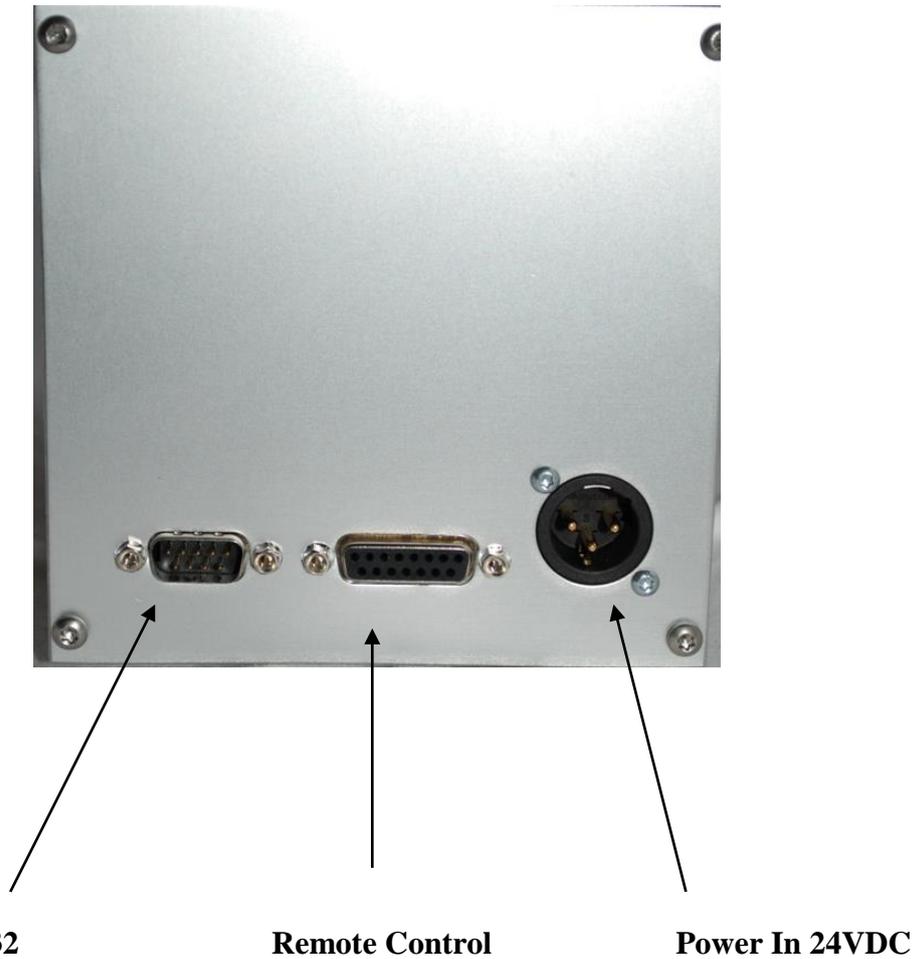
For security reasons only cables or foot pedals delivered by Oina VV AB are allowed to be connected to our products!

**For all kind of cables or foot pedals connected to the Pump Unit
for external speed control, start or dispense forward or reverse:
read users manual attached to customised foot pedal or customised remote cable**

Accurate Speed Control accommodates all FMI pump head sizes.

See separate users manual for all info about the FMI pump heads!

Rear panel connections



Configuration for Pump Unit: ACCURATE SC/BM Serial n/o: ASP 10-126

30V DC 30W (0/0,9)

30V DC 30W + 18 P (1/0,9)

24V BLDC 50W + 36 P (1/0,0)

24V BLDC 50W / Brake + 36 P (1/0,9)

Gearbox Ratio: 5:1

Speed Range: approx 18-360 rpm

Pump head model: RH 1CTC

Serial n/o: 11560-02

Max capacity: 100/lstroke (revolution)