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Quick Start Guide for VisiFirm Optical DO Sensor with FLXA402 Analyzer

Hamilton VisiFirm Optical DO Sensor / FLXA402 4-Wire Analyzer

Quick Start with D5 Module:

- **Necessary components**
  - Hamilton VisiFerm Optical DO sensor
  - Cable: WU10-V-D Yokogawa cable or Hamilton VP8 cable
  - FLXA402 Multi Channel 4-Wire Analyzer with D5 module

- **Wiring connection**

External power supply is not required as terminals 10 and 13 from D5 digital module provide power supply.

FLXA402-D5	WU10-V-D	Hamilton VP8
Terminal number - Function	Color	Color
14 - Cable shield/Probe body	-	-
13 - Power ground	White shield	Red shield/Black
12 - RS485 B+	Green	Brown
11 - RS485 A-	Yellow	Yellow
10 - 5 to 30 VDC	White core	Red Core
18 -	-	-
17 -	-	-
16 -	-	-
15 -	-	-

- **Configuration**

I. Set desired DO unit (ppm, ppb, mg/L, or %SAT).
  - Path to set DO unit:
    - From home page, click on bottom right sensor "**Menu**" > "**Setting**" > "**Measure setting**" > "**Unit**" > select desired unit > click on top right blue "**Save**" icon > click on top right "Home" menu to go back to home page.

II. Configure mA output.
  - Path to configure mA output:
    - From home page, click on top right convertor "**Menu**" > "**Setting**" > "**mA output settings**" > select appropriate mA and as per requirement change parameter/range/setup etc. > click on top right blue "**Save**" icon > click on top right "**Home**" menu to go back to home page.

Quick Start with D1 Module:

- **Necessary components**
  - Hamilton VisiFerm Optical DO sensor
  - Cable: WU10-V-D Yokogawa cable, Hamilton VP6 or Hamilton VP8 cable
  - FLXA402 Multi Channel 4-Wire Analyzer with D1 module
  - 24 VDC external power supply

- **Wiring connection**

External 24 VDC power supply is required as D1 module does not provide power.

FLXA402-D1	WU10-V-D	Hamilton VP6	Hamilton VP8
Terminal number - Function	Color	Color	Color
11 – Temp T1	Red, NTC 22K	White, NTC 22K	White, NTC 22K
12 – Temp T2	Blue, NTC 22K	Green, NTC 22K	Green, NTC 22K
16 – NC (not connected)	None	None	None
15 – +anode Galvanic	None	None	None
13 – -cathode Galvanic	None	None	None
14 – LE	Shield – Black	Shield – Yellow/ Green	Shield – Yellow/ Green
17 – -cathode Polarographic	Brown core	Black core/Transparent	Black core/ Transparent
18 – +anode Polarographic	Brown Shield	Red Shield	Black shield
	Using 24 VDC external power supply		
	White Core, +24VDC	Grey, +24VDC	Red core, +24VDC
	White shield, Ground	Blue, Ground	Red shield/Black, Ground

- **Configuration**

I. Select Polarographic for sensor type.
- Follow below path:
  - From home page, click on bottom right sensor “**Menu**” > “**Setting**” > “**Configure sensor**” > “**Sensor type**” > select “**Polarographic**” > click “**Ok**” > click on top right blue “**Save**” icon > click on top right “**Home**” menu to go back to home page.

II. Change the temperature element to 22k NTC.
- Follow below path:
  - From home page, click on bottom right sensor “**Menu**” > “**Setting**” > “**Configure sensor**” > “**Temp. Element**” > select “**NTC 22k**” > click “**Ok**” > click on top right blue “**Save**” icon > click on top right “**Home**” menu to go back to home page.

III. Leave the sensor sensitivity set to default value of 7.5 nA/ppm.

- To check the sensor sensitivity, follow below path:
  - From home page, click on bottom right sensor "**Menu**" > "**Setting**" > "**Configure sensor**" > Scroll down until you see "**Polarographic**" "**Sensor sensitivity**" > leave sensor sensitivity to "**7.5 nA/ppm**" > click on top right "**Home**" menu to go back to home page.

IV. Set desired DO unit (ppm, ppb, mg/L, or %SAT).

- Follow below path to set DO unit:
  - From home page, click on bottom right sensor "**Menu**" > "**Setting**" > "**Measure setting**" > "**Unit**" > select desired unit > click on top right blue "**Save**" icon > click on top right "**Home**" menu to go back to home page.

V. Configure mA output.

- Follow below path to configure mA output:
  - From home page, click on top right convertor "**Menu**" > "**Setting**" > "**mA output settings**" > select appropriate mA and as per requirement change parameter/range/setup etc. > click on top right blue "**Save**" icon > click on top right "**Home**" menu to go back to home page.

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