VisiFerm™ DO SU Sensors

Quick Guide

HAMILTON®

VP8 Pin Designation with Hamilton Data Cables VP8

VP Pin	Function	Color Data Cable
A	Not used	Yellow
B	4–20 mA interface	Green
C	Power supply: +24 VDC (7 to 30 VDC)	Red
D	Power supply: Ground	Blue
G	RS485 (A)	Gray
H	RS485 (B)	Pink
Housing	Shield	Green/Yellow

Example of circuit arrangement

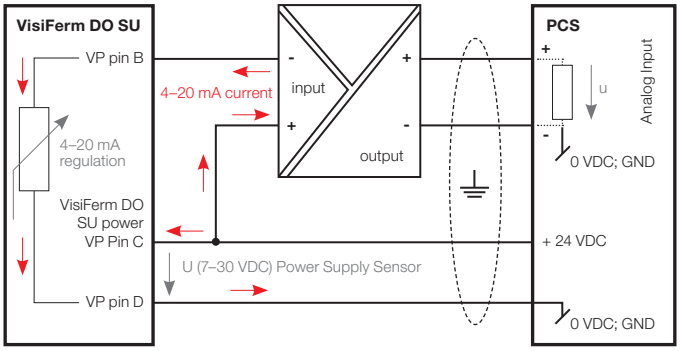

Figure 1: Typical connection to PCS using the VisiFerm DO SU.

⚠ ATTENTION! Always use Hamilton VP8 cables, available in a range of different lengths, for the easiest and safest connection of the VisiFerm DO SU.

⚠ ATTENTION! Make sure that the housing of the VisiFerm DO SU is connected to protective earth.

⚠ ATTENTION! Please remove the protective cap from the sensor shaft before mounting into the ODO Cap. Handle with care to avoid glass breakage.

Operation

VisiFerm DO SU Sensor setup

- CONNECT VISIFERM DO SU WITH ODO CAP (integrated part of the single use container)
- ENTER CALIBRATION DATA FROM SENSOR LABEL INTO VISIFERM DO SU
- PERFORM PRODUCT CALIBRATION IF REQUIRED
- START PROCESS

Figure 2: Sensor setup using a single use container with integrated ODO Cap.

Calibration

The ODO Cap has been pre-calibrated at 100% and 0% oxygen saturation at 25 °C in gas; hence calibration prior to the process is not necessary. The calibration values for Phase 0 and Stern Volmer Coefficient (SV-Coefficient) can be found on the label attached to the ODO Cap.

1. Read the Phase 0 (°) and Stern Volmer Coefficient (-) written on the sensor label (see figure 3).
2. Enter the Phase 0 and SV-Coefficient values into the VisiFerm DO SU (see «Configuration»).
3. If required, perform a product calibration step to increase accuracy.

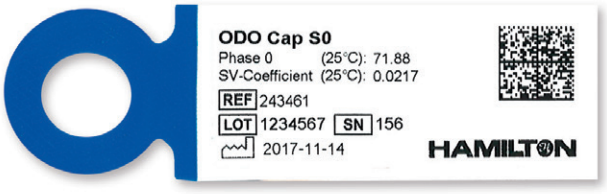

Figure 3: Example sensor label with calibration values.

NOTE: For detailled information see also Operating Instruction on www.hamiltoncompany.com.

Configuration

Three options are available for the configuration and monitoring of a sensor (see also Parts and Accessories for needed equipment and software):

- Personal computer or notebook
- ArcAir application on mobile devices
- Access via PCS (when integrated by the system supplier)

Parts and Accessories

Ref	Description
243258	VisiFerm DO SU Arc 120
10078255	VisiFerm DO SU Arc 120 C
243461	ODO Cap S0 Kit
10077858	ODO Cap S2 Kit
243460	Arc Wi 1G Adapter BT
243490-01	Arc USB Power Cable VP8
243499	Arc Wireless Converter BT
243690	Arc View Mobile
355263	Data Cable VP8 1 m
355264	Data Cable VP8 3 m
355265	Data Cable VP8 5 m
355266	Data Cable VP8 10 m
355267	Data Cable VP8 15 m
355268	Data Cable VP8 20 m
10070910	Data Cable VP8 / M12 1 m
10070905	Data Cable VP8 / M12 3 m
10067844	Data Cable VP8 / M12 5 m
10067846	Data Cable VP8 / M12 10 m

ArcAir Application

PC version: download from www.hamiltoncompany.com
Mobile version: download from App Store or Play Store

Download on the App Store

GET IT ON Google Play

Disposal

The design of Hamilton sensors optimally considers environmental compatibility. In accordance with the EC guideline 2012/19/EU Hamilton sensors that are worn out or no longer required must be sent to a dedicated collection point for electrical and electronic devices, alternatively, must be sent to Hamilton for disposal. Sensors must not be sent to an unsorted waste disposal point.

有害物質表，請參閱www.hamiltoncompany.com,
章節過程分析，符合性聲明

© 2019 Hamilton Bonaduz AG. All rights reserved.

REF 10066591/01 — 09/2019

HAMILTON

Web: www.hamiltoncompany.com
USA: 800-648-5950
Europe: +41-58-610-10-10

Hamilton Americas & Pacific Rim
4970 Energy Way
Reno, Nevada 89502 USA
Tel: +1-775-858-3000
Fax: +1-775-856-7259
sales@hamiltoncompany.com

Hamilton Europe, Asia & Africa
Via Crusch 8
CH-7402 Bonaduz, Switzerland
Tel: +41-58-610-10-10
Fax: +41-58-610-00-10
contact.pa.ch@hamilton.ch

To find a representative in your area, please visit www.hamiltoncompany.com.