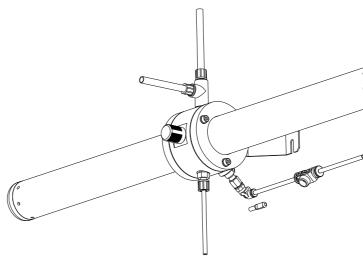
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FLOW-THROUGH MEASURING CELL



YSI 1725 Brannum Lane Yellow Springs, OH 45387 Tel: +1 937-767-7241; 800-765-4974 Fax: +1 937-767-1058 Email: environmental@ysi.com Web: www.ysi.com

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OPERATIONS MANUAL

ba76135e01 04/2013





γIS FT-1

For the most recent version of the manual, please visit <u>www.ysi.com</u>.

woo tal@ysi.com 7 1241 48U 78634 H əι

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Internet: <u>www.ysi.co</u>	
Email: <u>environment</u>	
767-765-765	
7-797-769 f+ :I9T	
HO ,springS wolleY	
1725 Brannim Lan	
ISA	Contact



VIS FT-1

Overview 1

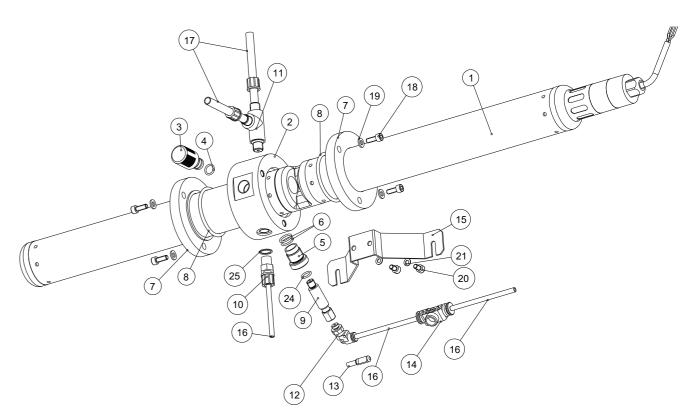


Fig. 1-1 Exploded drawing

Pos.	Designation
1	Spectral sensor
2	Measuring cell
3	Cleaning screw connection
4	O-ring for pos. 3 (11 x 2 mm)
5	Knurled and threaded clamp-connection for pos. 9
6	O-ring for pos. 5 (14 x 2 mm)
7	Flange
8	O-ring for pos. 7 (60 x 4 mm)
9	Compressed air center connector
10	Straight screw coupling for sample inlet
11	T-screw coupling for sample outlet
12	Angled screw coupling for compressed air
13	Blind plug for pos. 12
14	Compressed air check valve
15	Wall holder A2

ion mm PU r pos. 7 sher for pos. 18 sher for pos. 20 r pos. 9 (8 x 2 mm) 1/4 "

Designatio	.soq
n fxð	91
fx0f əsoH	21
Screw for p	81
Plain wash	61
Screw for p	50
Plain wash	51
O-ring for p	54
Seal disk 1	52

VIS FT-1

VIS FT-1

Installation 2

2.1 sensor

1	Clean the sp installing (se
2	Unscrew the what so that unscrewed.
3	Using an Alle screws that f
4	Insert the spe G1/8" thread and complete clamp-conne
5	When doing sensor and r (see fig. belo



6

ba76135e01 04/2013

Installing the flow-through measuring cell on the

bectral sensor and, if necessary, calibrate it before ee sensor operating manual).

knurled and threaded clamp-connection somethe compressed air center connector can be Remove the compressed air center connector.

len key size 6, somewhat unloosen the Allen fix the flanges to the measuring chamber.

pectral sensor in the measuring chamber so that the ded connection of the spectral sensor is centered tely visible through the knurled and threaded ection of the measuring chamber.

so make sure that the rectangular surfaces on the measuring chamber point into the same direction ow)

When doing so the fixing openings of the wall holder must point downward, and the sensor must be thus positioned that the plug head connector for the sensor cable is on the right side (see fig. on the following page).

1-T3 SIV



len key size 6, somewhat tighten the Allen screws langes to the measuring chamber so that the meapher cannot easily be moved on the spectral seneaded connection of the spectral sensor must still and completely visible through the knurled and amp-connection of the measuring chamber.

mpressed air center connector in the knurled and amp-connection and carefully screw it hand-tight 8" threaded connection of the spectral sensor.

connred and threaded clamp-connection hand-tight compressed air center connector is firmly and tightly with the spectral sensor.

llen key size 6, fasten both flanges on the measurr as far as they will go.

crewed joint for compressed air into the comcenter connector and insert the compressed air into the screwed joint.

6 Contact Information

f.1 Ordering & Technical Support

	1725 Brannun Lane Yellow Springs, OH 45387 USA
: <mark>lisM</mark>	YSI Incorporated
: <u>lism∃</u>	<u>mos.isv@lstnemnorivne</u>
Fax:	8301-797 (759)
: elephone :	(800) 897-4151 (937) 767-7241 Monday through Friday, 8:00 AM to 5:00 PM ET

When placing an order please have the following information available:

moo.iey.www

Quantity	Purchase Order or Credit Card
Model number or brief description	Billing and shipping address
YSI account number (if available)	Name and Phone Number

6.2 Service Information

:<u>Internet</u>:

YSI has authorized service centers throughout the United States and Internationally. For the nearest service center information, please visit <u>www.ysi.com</u> and click 'Support' or contact YSI Technical Support directly at 800-897-4151.

When returning a product for service, include the Product Return form with cleaning certification. The form must be completely filled out for an YSI Service Center to accept the instrument for service. The Product Return form may be downloaded at <u>www.ysi.com</u> and clicking on the 'Support' tab.



Screw the so pressed air o fx3 m	۱۱
IA ərt prisU Iədmsrtə pri	01
Fasten the K so that the co connected <i>w</i>	6
os ent the co threaded cla 3/1:D ent otni	8
Using an All that fix the fl suring cham sor. The thre be centered threaded cla	۷

2.2	Mounting
	sensor

Using 2 screws, mount the measuring chamber together with 12 the sensor and wall holder to a wall or wall area. When doing so hook the wall holder into the screws from above. Compressed air connection: 13 To prevent any sample liquid from penetrating the compressed air hose, install the check valve (standard accessory, see Fig. 2-1) in the compressed air line.

Cleaning and maintenance 4

Measuring cell, flanges,

screw connection

Parts of the screw

Compressed-air hose

connections

O-rings

Screws

Wall holder

Warning

intermediate rings, cleaning



Materials

The measuring cell is under pressure during the compressed air cleaning procedure. Switch on the maintenance condition for the sensor each time prior to opening the measuring cell.

PVC

NBR

PU

PVDF/PTFE, PA, PC

V2A EdV2A stainless steel 1.4301

V2A EdV2A stainless steel 1.4301

Cleaning:

The measuring gap of the spectral sensor can be cleaned after unscrewing the cleaning screw connection (pos. 3 in Fig. 1-1). When cleaning the measuring gap, follow the instructions in the operating manual of the spectral sensor. Only use the cleaning agents and accessories mentioned there.

Replacement parts and accessories 5

Designation	Model	Order no.
Replacement parts set, comprising: – 4 O-rings 11 x 2 mm	VIS FT-1/RS	480 081Y
– 2 O-rings 14 x 2 mm		
– 2 O-rings 60 x 4 mm		
– 1 O-ring 8 x 2 mm		
– 1 Seal disk 1/4 "		

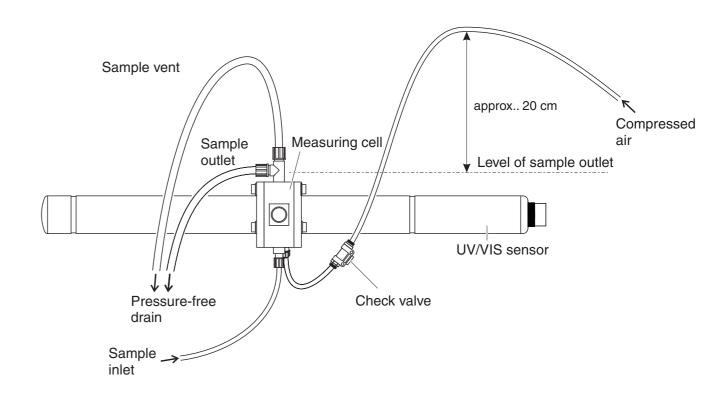


Fig. 2-1 VIS FT-1 mounted

	14	Sample vent Connect the upward-lead Mount the ho pressure-fre
_	15	Sample outle Connect the lateral conne fix it with hol

g the flow-through measuring cell with the

sample vent hose (10 mm outer diameter) to the ling connector of the T-connection for the outlet. ose upward first, then downward in a U-form into a e drain and fix it with holding clamps.

let:

sample outlet hose (10 mm outer diameter) to the ector of the screw-in connection for the outlet and Iding clamps.

ar	ed Ə	-mos of com- pressed air	
se connection 10 x 1 mm ter diameter 10 mm x mm 01 135mm)		tnəv bns təltuO	
se connection 6 x 1 mm ter diameter 6 mm x inner diameter 4 mm)		təlni	
C	° 24	Max. temperature	
ar S VIS FT-1 flow-through measuring cell fulfills all requirements ording to article 3(3) of the directive 97/23/EC ("pressure equip- nt directive").	acco	Max. pressure	
nim\lm 008 .xox	ddA	Max. flow-through Viinsup	
orox. 20 ml/min (depending on measuring interval)	ddA	hin. flow-through duantity	
ath approx. 185 mm	dəQ		
meter approx. 150 mm	Diar		
tth approx. 73 mm	ibiW	Dimensions with wall bolder and connections	
meter approx. 105 mm	Diar		e flow-through quantity and compressed air cleaning.
	ibiW	Dimensions of the Dimensions without wall bound of the Dimensions of the Dimensions of the Dimensional Content of the Dimensional	of the measuring chamber (pos. 10 in Fig. 1-1).
stsb Ispintper	3		ılet:

(outer diameter 6 mm x inner diameter 4 mm)

Hose connection 6 x 1 mm

connection

Compressed air

Check the flow-through quantity and comp	2۴
Sample inlet: Connect the sample inlet hose (6 mm oute straight screw coupling for the sample inle underside of the measuring chamber (pos.	91