

## FLOW CELL

Type: FC3.\*

### Description

The flow cell enables the use of AC1, AP1, CC1 sensor in a flow through arrangement. The sensor is inserted into the slit of cell and tightened by closing of the door. The cell ensures the wall-jet flow around the working electrode and it is optimised so that no air bubbles cumulate in the cell. The cell contains also the contact and output cable.



### Physical Parameters

#### Dimensions:

Weight: 11 gms  
Length: 42 mm  
Width: 24 mm  
Thickness: 16 mm

### LED Specification

Diameter: 3 mm  
Wave length: 625 nm  
Color: red  
Voltage: 1,8 V  
Max. current: 20 mA  
Emitting angle: 27 deg

### Cell Material

- Polymethylmetacrylate

### Experimental Accessories

- Peristaltic Pump
- Linear Pump

### Cell Usage

- Flow measurement
- Flow-injection analysis
- Detection of herbicides

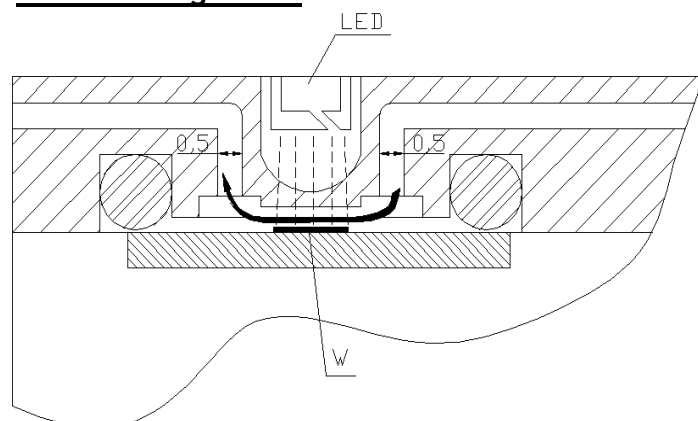
### Example of Order

- 5 pieces - FC3.S

### Ordering Information

- The order is specified by whole product code
- Minimum order quantity - 1 cell
- Delivery time for standard FC3 cell is 4 weeks from receipt of order
- Delivery time for non-standard FC3 cell depends on final technical specification of order

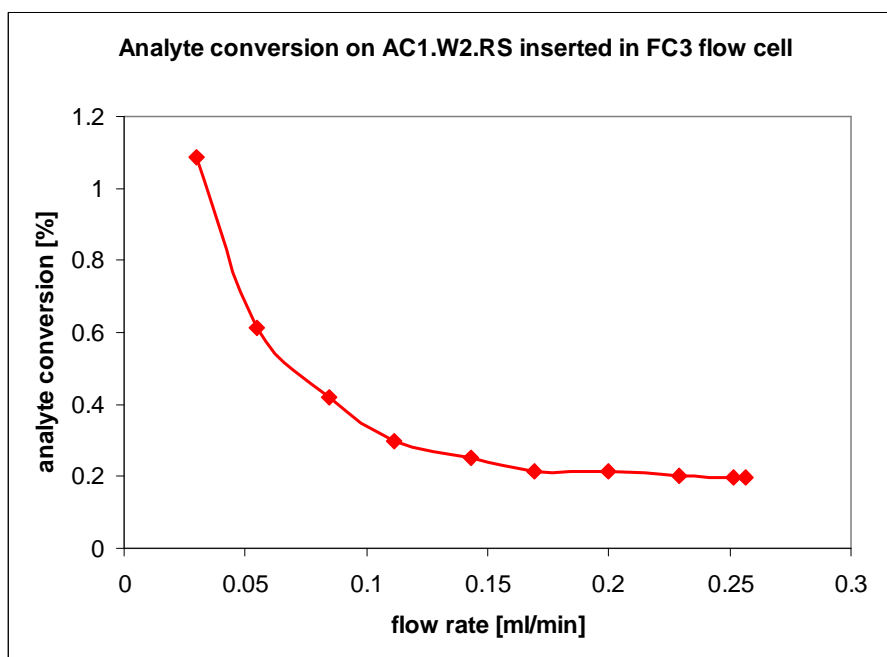
### Flow Arrangement



## Types of Termination

Model	Cable	Termination	Evaluating Units
FC3.S	Three core Shielded cable	Single conductors	any device
FC3.1	Three core Shielded cable	Banana plugs	any device
FC3.2	Three core Shielded cable	7 poles BVT connector	any device
FC3.3	Three core Shielded cable	Triad01 Palminstruments	Palmsens - Palminstruments
FC3.4	Three core Shielded cable	BNC connectors	eDAQ
FC3.5	Three core Shielded cable	Small banana plugs	any device

## Analyte conversion on AC1 electrochemical sensor using FC3 cell at different flow rates



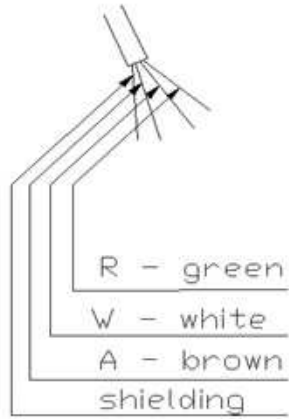
## Warnings

The parts of device which are in contact with analyzed solutions are made from PMMA - polymethylmethacrylate. Some solution components can damage the device. Following solutions were proved to damage it:

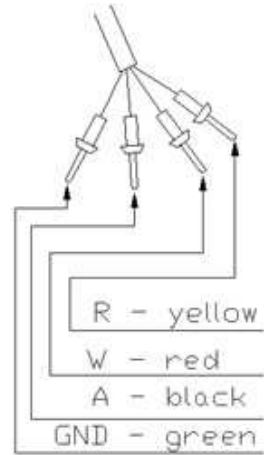
- Solutions containing chloroform
- Solutions of p-benzoquinone cause the induced creep of PMMA (aproximately after 6 month of use)
- Solutions of HCl with tetraethyl orthosilicate causes induced creep of PMMA and metal parts corrosion.

**Internal Wiring**

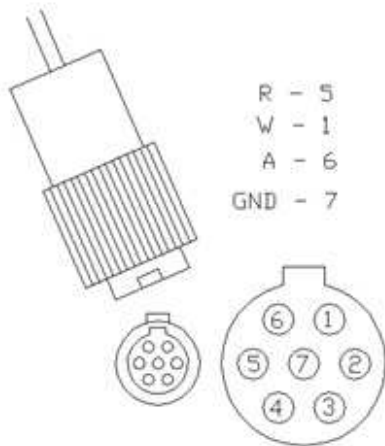
FC3.S



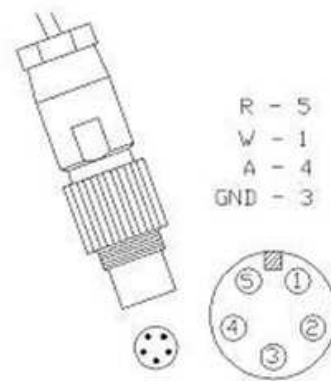
FC3.1



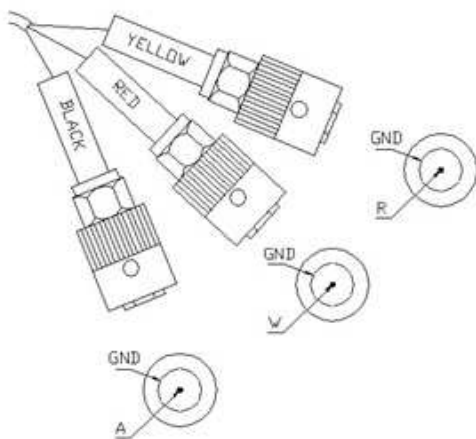
FC3.2



FC3.3



FC3.4



FC3.5

