

MAGNETIC FLOW CELL

Type: MFC.*

Description

The flow cell enables detection of biochemical's on the paramagnetic particles. The new cell (MFC.*) enables simple use of magnetic particles in electrochemical measurement. The cell consists of holder which creates the non homogeneous magnetic field which is concentrated on the working electrode surface. It can selectively attach the magnetic beads on its surface. 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 thin layer flow around the working electrode. The cell contains also the contact and output cable.

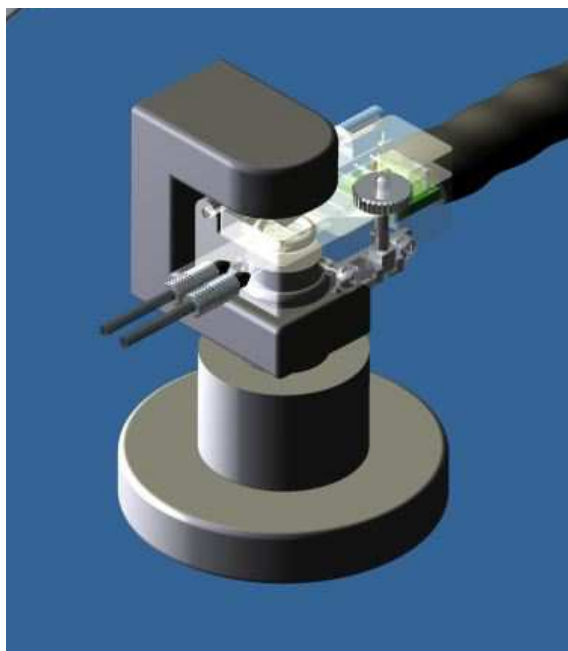


Fig. 1. The structure of the magnetic cell.

Physical Parameters

Dimensions:

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

Cell Material

- Polymethylmetacrylate

Experimental Accessories

- Peristaltic Pump
- Linear Pump

Cell Usage

- Flow measurement with magnetic particles
- Flow-injection analysis

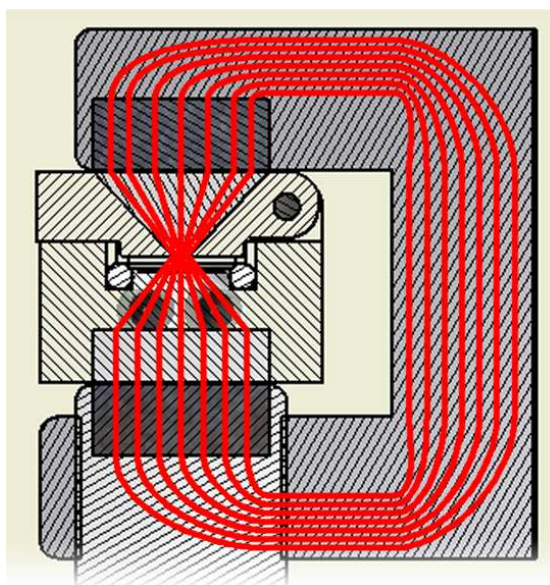


Fig. 2. Structure of magnetic field

Types of Termination

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

Example of Order

- 5 pieces - MFC.*

Ordering Information

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

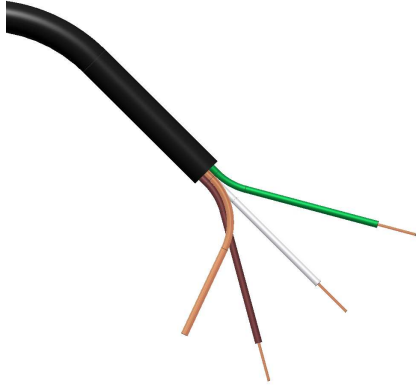
Warnings

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:

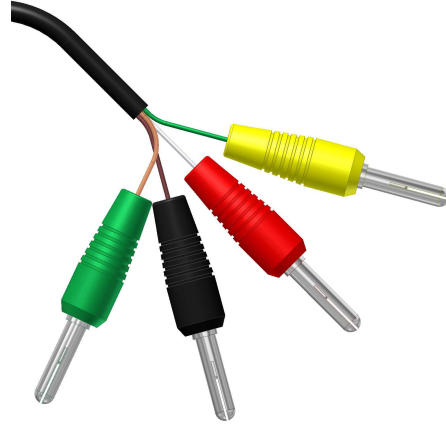
- Organic solvents
- Solutions of HCl with tetraethyl orthosilicate causes induced creep of PMMA and metal parts corrosion.

Internal Wiring

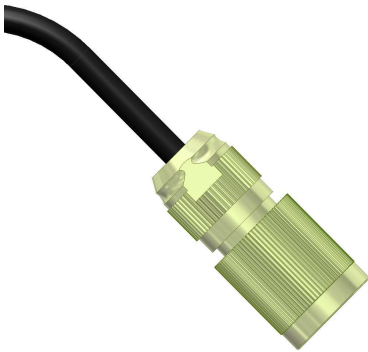
FC2.S



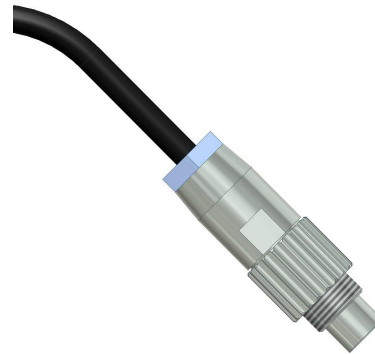
FC2.1



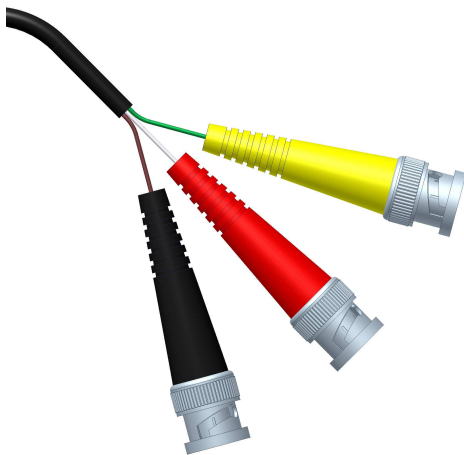
FC2.2



FC2.3



FC2.4



FC2.5

