

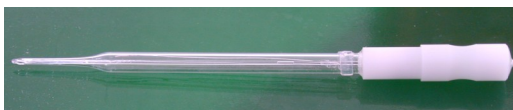
# MICROELECTRODES, INC.



## Micro-Combination pH Microelectrodes

(pH sensor-reference in a single probe)

### MI-410 Micro-combination pH Probe



Measures volumes as small as 5 microliters  
Total length: 150mm - Body diam: 6mm - Tip diam.: 1.2mm  
Each combination pH electrode includes a bottle of reference solution.

### MI-710 Tiny Micro-Combination pH Probe



Measures volumes as small as 5 microliters  
Total length: 83mm - Body diam: 2.5mm - Tip diam.: 1.2mm  
Each combination pH electrode includes a bottle of reference solution.

### MI-4152 Micro-Combination Microelectrodes



Measures volumes as small as 0.5 microliters  
Total length: 100mm - Body diam: 6mm - Tip diam.: 0.75mm  
Each combination pH electrode includes a bottle of reference solution.

### MI-4154 Micro-Combination Microelectrodes



Measures volumes as small as 0.5 microliters  
Total length: 120mm - Body diam: 6mm - Tip diam.: 0.75mm  
Each combination pH electrode includes a bottle of reference solution.

### MI-4156 Micro-Combination Microelectrodes



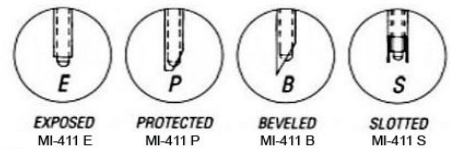
Measures volumes as small as 0.5 microliters  
Total length: 140mm - Body diam: 6mm - Tip diam.: 0.75mm  
Each combination pH electrode includes a bottle of reference solution.

### MI-412 Micro-combination pH Probe for NMR cells.



Measures volumes as small as 5 microliters  
Total length: 228mm - Body diam: 2.5mm - Tip diam.: 1.2mm  
Each combination pH electrode includes a bottle of reference solution.

## Needle Combination pH Microelectrodes

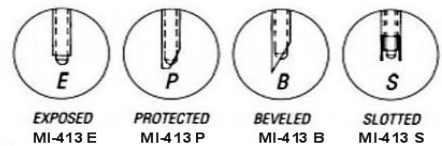


### MI-411 Micro-combination pH Probe (12 Gauge)

**Penetrates through septum!**

Total length: 180mm - Body diam.: 10mm - Needle length: 80mm - Tip diam.: 3mm

Each needle combination pH electrode includes a bottle of reference solution.



### MI-413 Micro-combination pH Probe (18 Gauge)

**Penetrates through septum!**

Total length: 80mm - Body diam: 6mm - Needle length: 20mm - Tip diam.: 1.3mm

Each needle combination pH electrode includes a bottle of reference solution.



### MI-4142, MI-4144 & MI-4146 Micro-combination pH Probes (16 Gauge)

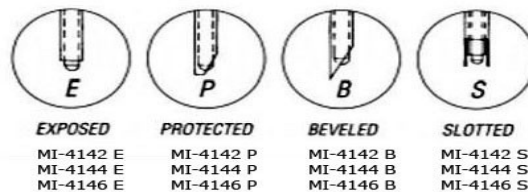
**Penetrates through septum!**

MI-4142 Total length: 157mm - Body diam: 7.6mm - Needle length: 20mm - Tip diam.: 1.7mm

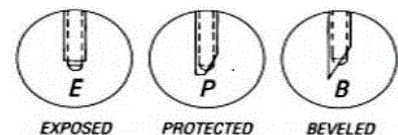
MI-4144 Total length: 157mm - Body diam: 7.6mm - Needle length: 40mm - Tip diam.: 1.7mm

MI-4146 Total length: 157mm - Body diam: 7.6mm - Needle length: 60mm - Tip diam.: 1.7mm

Each needle combination pH electrode includes a bottle of reference solution.



## Needle pH microelectrodes



### MI-407 Needle pH Microelectrode

Total length: 98mm - Body diam: 6.5mm - Needle length: 65mm - Tip diam.: 0.8mm



### MI-408 Needle pH Microelectrode

Total length: 95mm - Body diam: 4.6mm - Needle length: 13mm - Tip diam.: 0.8mm

### MI-409 Needle pH Microelectrode

Total length: 38mm - Body diam: 3mm - Needle length: 20 to 50mm - Tip diam.: 0.8mm

## Standard pH microelectrodes

**MI-405 Standard pH Probe (needs reference probe)**



Total length: 146mm - Needle diam: 2mm - Tip diam.: 1.2mm

## Surface pH microelectrodes



**MI-406 Flat Membrane pH microelectrode**

Total length: 146mm - Diam: 2mm - Tip diam.: 1.5mm

**MI-404 Flat Membrane pH microelectrode**

Total length: 9mm - Diam: 4.6mm - Tip diam.: 2.5mm

## Flow-thru pH microelectrodes



**8-705 Flow-thru pH microelectrodes for 1/8" tubing**

Total length: 43mm - Body diam: 8mm - Cell volume: 0.8mL



**16-705 Flow-thru pH microelectrodes for 1/16" tubing**

Total length: 43mm - Body diam: 8mm - Cell volume: 0.011mL

## Instrumentation pH microelectrodes

**MV-ADPT pH microelectrodes Instrumentation**

This adapter allows a pH/Ion Electrode to be directly connected to a voltage reading device (i.e. strip chart, A/D Board, DVM) without the need of a pH/Ion Meter. You will need to do Nernst equations manually or with a computer.

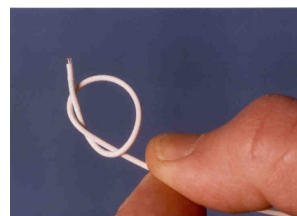
## Esophageal pH microelectrodes

**MI-506 Esophageal pH Microelectrode**

Total length: 3 metre - Body diam: 1.8mm - Tip diam.: 1.3mm

**MI-508 Esophageal pH Microelectrode**

Total length: 3 metre - Body diam: 1.8mm - Tip diam.: 1.2mm



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