

# Model IT – Permanent Portable Reference

## Typical Applications:

- Permanent portable reference electrode for potential measurements in the field

## Featuring:

- Maintenance-free construction – never needs re-building
- Eliminates need for hazardous liquid waste disposal
- End-grain wood membrane resists clogging and dry-out
- Can be used in any position



## Product Specifications

**IT2** 1 5/8 inch (4 cm) dia. x 6 inch (15 cm) long

**IT3** 3 1/4 inch (8 cm) dia. x 5 inch (13 cm) long

**Termination** 1/4-20 NC threaded stud

**Shipping weight** ½ lb. (¼ kg)

## Element Types

**AGG** saturated gelled Ag/AgCl

**CUG** saturated gelled Cu/CuSO<sub>4</sub>

## Element Specifications

**Max. Temp.** +140F (60C)

**Min. Temp.** +32F (0C)

-30F (-34C) with optional antifreeze

**Design life** 20+ yrs.

**Shelf life** indefinite when stored indoors with end cap in place

**Model IT2** (left) is for general usage.

**Model IT3** (right) is designed to be free standing.

The **Model IT** is used to take potential readings in any application where a standard, liquid-junction portable reference electrode is presently being used. Because the **Model IT** contains a gel rather than a liquid, it can be used in all positions and will neither leak nor require refilling or cleaning. The hardwood plug offers several advantages over the conventional ceramic membrane: it will not clog as readily, it is resistant to salt blockage, and it can be reworked by light sanding or cutting if it becomes contaminated with oil. Antifreeze can be added to the gel (optional) so that the electrode will not be damaged if exposed to temperatures down to -30F (-34C). However, antifreeze may shift the reference potential by up to 12 mV.

## electrochemical devices, inc.

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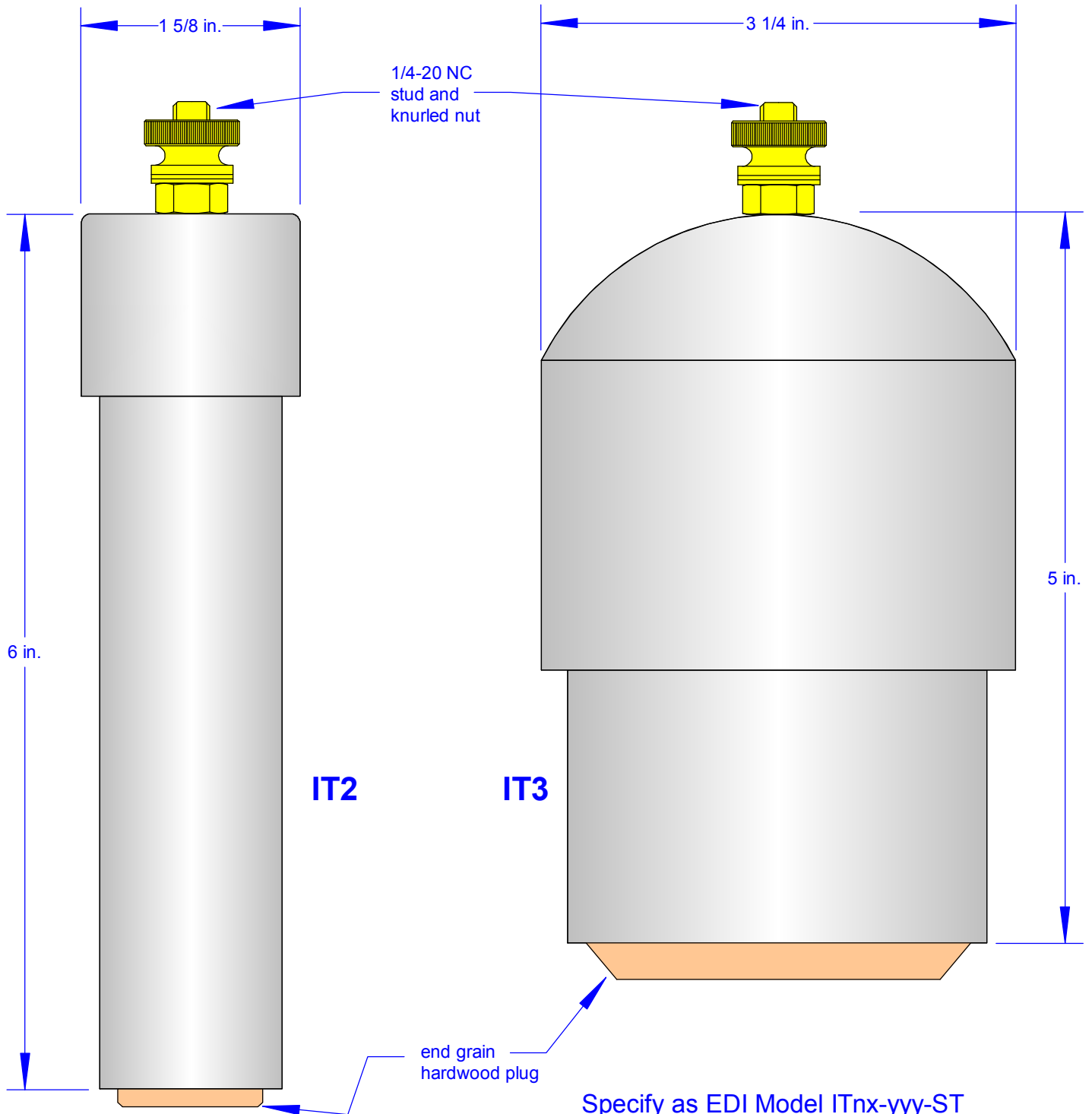
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*I Series  
Immersion  
Reference  
Electrodes*





**IT2**

**IT3**

Specify as EDI Model ITn<sub>x</sub>-yyy-ST  
 where n = size code: 2 or 3  
 x = antifreeze code:  
 A for antifreeze, otherwise blank  
 and yyy = element type: CUG or AGG  
 CUG = Cu/CuSO<sub>4</sub> AGG = Ag/AgCl/sat. KCl

# Permanent Portable Reference Electrode

SCALE	FULL
DRAWN BY	FJA
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