

How to use CV6008.vi with electrochemistry

1. Preparations:
 - a. get sub vi from the course web, 532ai.vi
 - b. NI USB 6008 AD/DA converter
 - c. EG&G PAR 173--potentiostat and PAR 175 Waveform generator

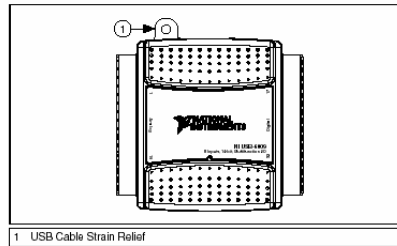
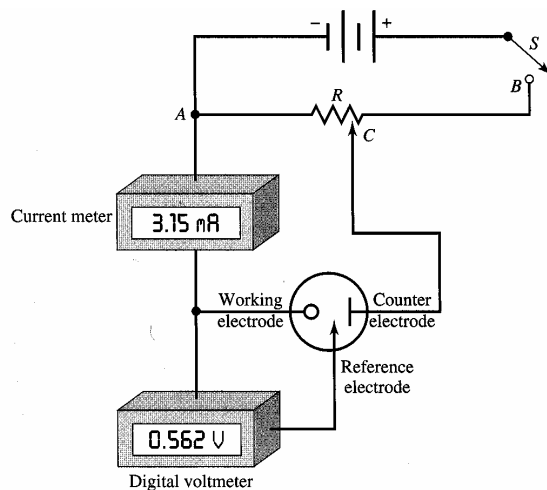
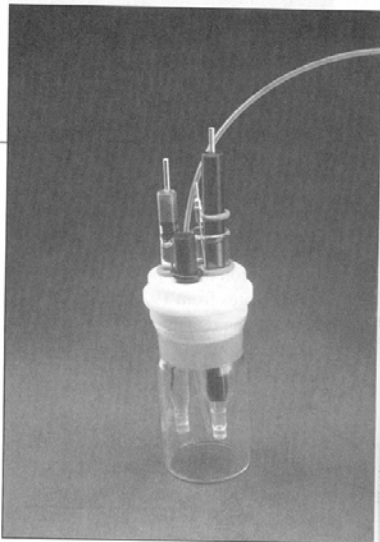


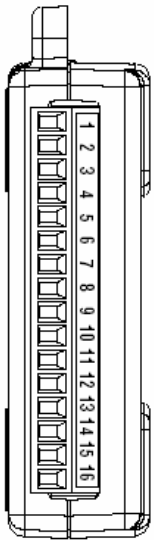
Figure 2. USB-6008/6009



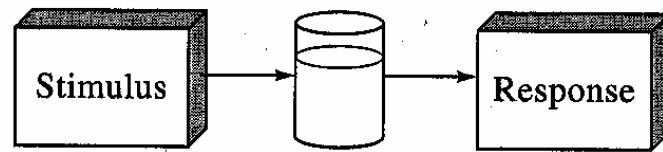
Name	Waveform	Type voltammetry	Name	Waveform	Type voltammetry
(a) Linear scan		Polarography Hydrodynamic voltammetry	(b) Differential pulse		Differential pulse polarography
(c) Square wave		Square wave voltammetry	(d) Triangular		Cyclic voltammetry

2. Connection:

Table 1. Analog Terminal Assignments

Module	Terminal	Signal, Single-Ended Mode	Signal, Differential Mode
	1	GND	GND
	2	AI 0	AI 0+
	3	AI 4	AI 0-
	4	GND	GND
	5	AI 1	AI 1+
	6	AI 5	AI 1-
	7	GND	GND
	8	AI 2	AI 2+
	9	AI 6	AI 2-
	10	GND	GND
	11	AI 3	AI 3+
	12	AI 7	AI 3-
	13	GND	GND
	14	AO 0	AO 0
	15	AO 1	AO 1
	16	GND	GND

Voltage output from 175



Energy source

System under study

Analytical information

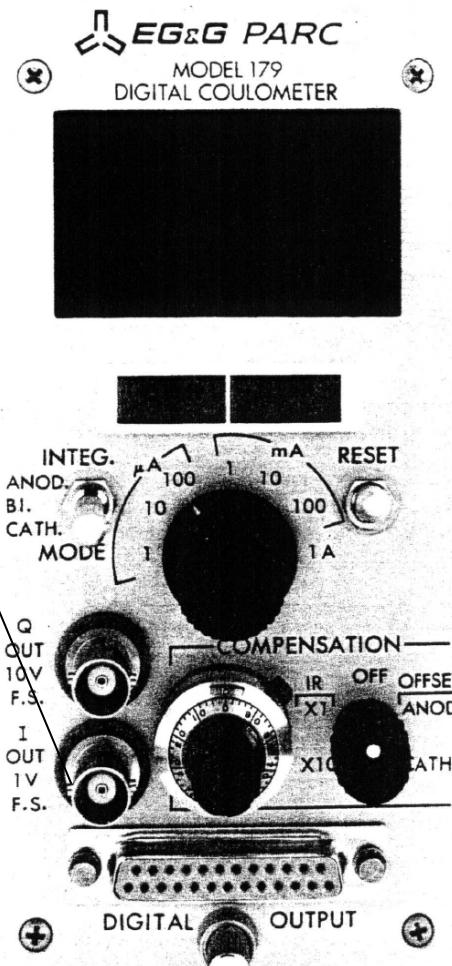
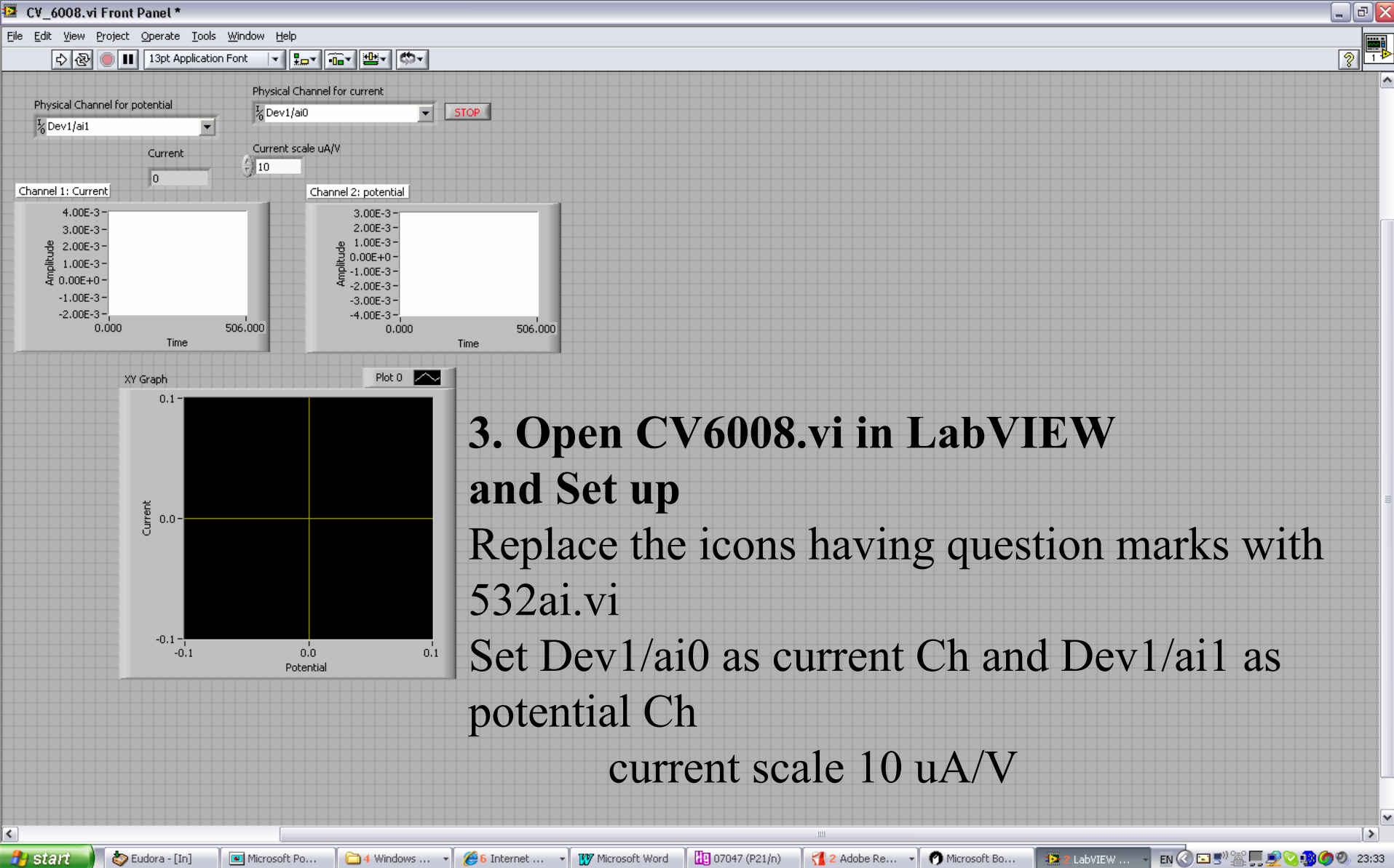


Figure I-3. MODEL 179 COULOMETER



3. Open CV6008.vi in LabVIEW

and Set up

Replace the icons having question marks with 532ai.vi

Set Dev1/ai0 as current Ch and Dev1/ai1 as potential Ch

current scale 10 uA/V

4. Run CV6008.vi