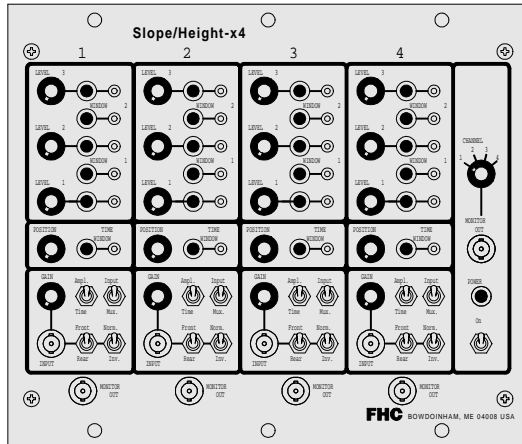


## 4-Channel Slope/Height Window Discriminator

- **FOUR INDEPENDENT CHANNELS EACH ABLE TO SORT EXTRACELLULAR SPIKES BASED ON AMPLITUDE OR WAVE SHAPE. EACH CHANNEL WITH:**
  - MULTIPLEXED OUTPUT SHOWING 5 LINES OF DATA ON A SINGLE SCOPE CHANNEL
  - INPUT GAIN AND POLARITY CONTROLS
  - TIME OR AMPLITUDE WINDOW CAPABILITY
- **OPTIONAL BACK PANEL ACCESS FOR INPUT AND OUTPUT CONNECTIONS**
- **COMPACT SIZE/BUILT-IN POWER SUPPLY WITH FILTERED MAINS POWER ENTRY (115/230V, 50-60 Hz)**



Our 4-channel Slope/Height Window Discriminator has been designed to complement and streamline multi-microelectrode studies. Each channel provides extracellular spike analysis with either three level, two window amplitude, or time window discrimination.

Each channel has a multiplexed output which shows the input signal, 3 trigger levels, and data output line on a single scope channel. Indicator LEDs show status facilitating correct operation monitoring. To minimize cabling, the instrument has an output with switch to access each channel. It can also be ordered with an optional back panel DB25 connector with all data outputs accessible. Two 4-channel units mount across a 7" vertical rack mount space.

We're happy to customize any of our instruments to exactly meet your multi-channel recording requirements.

### SPECIFICATIONS

- Input Impedance:** 500KOhm
- Input dynamic range:** 10V peak-to-peak
- Voltage gain:** .1-10, continuously adjustable, polarity reversal switch provided
- Voltage levels (3):** Adjustable over -5V to +5V
- Time window position:** Adjustable, 0.4-8mSec, from the time signal crosses Level 1
- Multiplexed output:** Single oscilloscope channel displays input signal (as amplified), Level 1, 2, or 3, and Window output pulses
- TTL outputs:** +5V, 0.15mSec, all with LED indicators
- Power requirements:** 115/230V, 50-60Hz, 1A, selectable
- Dimensions:** 8 1/4" w x 7" h x 9" d (18 x 21 x 23cm) 6 lbs. (2.7kg)

### ORDERING INFORMATION

74-60-4 4-Channel S/H Window Discriminator

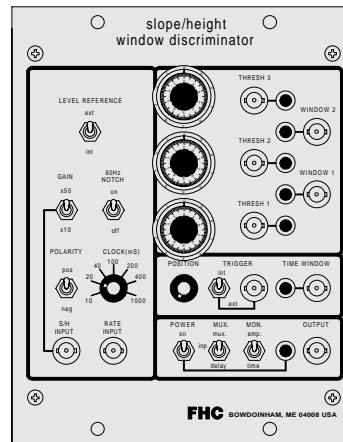
## Special Electronics

We're happy to **modify a standard product or even start from scratch**. Our experience can be applied toward meeting your research needs.

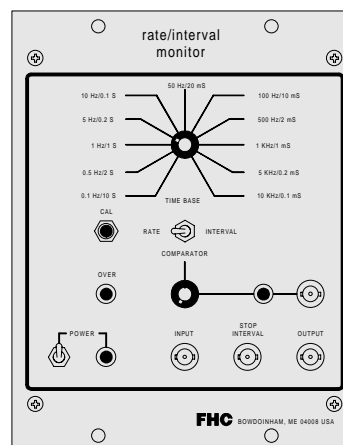
All product assemblies and subassemblies are available on our CAD systems and can be modified or combined promptly and inexpensively.

For example, in addition to the hundreds of special electrode configurations, we've created 8-channel Window Discriminators and even a 32-channel Switching Matrix Differential Amplifier from standard subsystems. We've compressed two instruments into one module, added special controls, or modified trigger or input parameters.

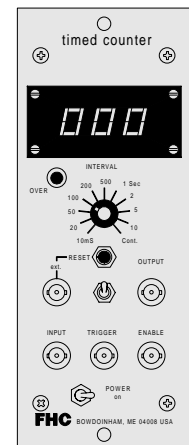
Please call or write with your requirements.



This special module included our Slope/Height Window discriminator, the rate part of our Rate/Interval Monitor, high-precision level potentiometers and back-panel access to all signal input/output.



A. The 74-30-5-06B involved adding an EXT. TIME BASE switch position so that the bin width is determined by a TTL pulse presented to the STOP INTERVAL input. The timing can be regular or derived from a changing event like heart or breathing rate.



B. This modification to the standard Timed Counter involved adding a switch so that the operator can select to reset the counters and retrigger automatically at the completion of the selected TIME INTERVAL.