

#### 4 FUNCTIONS AND CONTROLS

- 4.1 12V BATTERY Two-contact polarized connector for 12V Battery Power Supply.
- 4.2 ON-OFF Toggle SPDT switch to turn power from 12V Battery Power Supply to UP/DOWN Portable Scaler "ON" and "OFF".
- 4.3 START-STOP Toggle SPDT switch to "START" and "STOP" counting.
- 4.4 UP-DOWN Toggle SPDT switch to choose the mode of counting "UP" and "DOWN".
- 4.5 MINUTES A two decade thumbwheel switch to select the counting time. The thumbwheels can be set for time increments of 0.1 or 1.0 minutes using toggle switch 4.6.
- 4.6 X 0.1 - X 1 Toggle SPDT switch. Set switch to X 0.1 for 0.1 minute time increments. Set switch to X 1 for one minute time increments.
- 4.7 TIMER RESET Depress switch to reset timer.
- 4.8 GAIN X 20 Six position control. Figures 1, 2, 4, 8, 16 and 32 represent gain multiplier. At position 1 the amplifier gain is 20 and at position 32 the gain becomes 640 (32 X 20).
- 4.9 RESET Depressing RESET switch will reset the scaling section to zero.
- 4.10 The total counts are registered by 6 digit readout tubes.
- 4.11 H.V.1 MHV connector supplying high voltage to detector without preamplifier.
- 4.12 H.V.2 Winchester six-contact polarized connector type PM6S. The connector provides high voltage, 12V, 5V supply as well as ground and signal return lines for the detectors.

## 4.12.1 Voltage provided at each contact

contact	A	signal input
"	B	ground
"	C	ground
"	D	12V
"	E	5 V
"	F	1100 V

