PRO 50 (Two Channel)
PRO 60 (Four Channel)
With 8 bits, 200 MegaSamples per Second Digitizers

INPUTS:	Single-ended
a. Coupling:	AC, DC, GND (low freq. AC rolloff -3dB, 1.6 Hz)
b. Ranges (Full Scale):	60mV to 30V, 8 steps
c. Impedance:	1 Megohm ±1%, 52 pF ±10%
d. Zero Position Range:	0 to 100% Full Scale
SAFE OVERLOAD (all ranges):	240 VRMS and 360 Vpeak (up to 500 Hz)
WARM-UP TIME:	One hour
VERTICAL RESOLUTION:	8-bits (0.4%)
TIME BASE ACCURACY:	±0.01%
EXTERNAL CLOCK:	20 MHz (max)
DIGITIZING RATE:	
a. Maximum	200 MegaSamples per second (5 ns per point)
b. Minimum	500 Samples per second (2 ms per point)
RECORD LENGTH:	64K Samples per channel (256K Optional)
DC GAIN ERROR:	±1.0%
OFFSET ERROR	±1.0% Full Scale
STATIC INTEGRAL LINEARITY ERROR:	±0.6% Full Scale
MAXIMUM STATIC ERROR	±1.5% Full Scale
TEMPERATURE RANGE	
a. Storage:	0 to 50 °C
b. Operating:	15 to 35 °C (within which specifications hold)
BANDWIDTH (all ranges):	100 MHz (-3dB)
RISE TIME (all ranges):	3.5 nS

All performance measurements comply with IEEE Standard for Digitizing Waveform Recorders.

PRO 50 (Two Channel)
PRO 60 (Four Channel)
With 8 bits, 200 MegaSamples per Second Digitizers

RMS NOISE (open inputs)	
a. 5 ns:	1.0% Full Scale
b. 10 ns or slower:	0.6% Full Scale
FILTER (Switchable):	20 MHz (-3dB)
DIGITAL INTERNAL TRIGGER RANGE:	Trigger Range = Input Range
INTERNAL TRIGGER SENSITIVITY:	8 bit Digital Trigger Sensitivity adjustable from ($1/_{256}$) x (input range) to full scale
INTERNAL TRIGGER ACCURACY:	Same as input measurement accuracy
INTERNAL TRIGGER BANDWIDTH:	Equal to input bandwidth
EXTERNAL TRIGGER RANGE:	12 Volts
EXTERNAL TRIGGER SENSITIVITY:	200 mVp-p to 12 V Full Scale
EXTERNAL TRIGGER FREQUENCY (Max)	
a. External input (50% F. S.):	100 MHz
TRIGGER DELAY (Max)	
a. Pre-trigger:	99% of Screen
b. Post-trigger:	10^9 x Selected Time Per Point
EXTERNAL TRIGGER LEVEL ACCURACY:	±2%
TRIGGER SPECS:	All times are minimum values. Maximum value is 40 seconds. (Not applicable for Adv Triggering modes)
a. n Event:	2 to 1 million events
b. Hold Off:	20 ns
c. Glitch:	20 ns
d. Dropout (without Rearm):	60 ns

All performance measurements comply with IEEE Standard for Digitizing Waveform Recorders.

Specifications are subject to change without notice.

09-19-91
09-23-91