

**INTEGRATOR/ACCUMULATOR
PROCESS CONTROLLER
WITH DUAL LIMITS
MODEL 716**

FEATURES
>SEE BASIC MAINFRAME ON PAGE 28 FOR STANDARD SYSTEM'S FEATURES
>PROGRAMMABLE DOSE RATE
>ACCUMULATES PULSE DURATION



NOTE: REFER TO PAGE 28 FOR DESCRIPTION OF MAINFRAME.
DESCRIPTION

INTEGRATION: of Voltage or Current Signals such as required in photographic, solar, mask aligner and mass spectrometer applications is accurately performed by the 716 by means of an internal integrating circuit. A TTL Compatible Signal will command the Start/Stop Function.

NOTE: THESE SPECIFICATIONS GOVERN OTHER APPLICABLE SPECIFICATIONS OF MAIN FRAMES FOUND ON PAGE 28.

SPECIFICATIONS AT 25°C
Maximum Input Signal-----+/-4Vdc
Accuracy and Linearity-----+/-0.05%
Drift vs. Time-----+/-0.001/Second
Drift vs. Temperature-----+/-0.001/°C
Input Polarity-----BiPolar
Zero Offset Adjustment-----+/- 3000 Counts
Gate & Reset Controls-----TTL Compatible
Reset Time-----1mS Minimum
Analog Output-----0-2Vdc at 1m A

FUNCTION LOGIC	GATE ON	RESET
Integrate	1	0
Stop	0	0
Reset	X	1

NOTE: Other ranges can be customer implemented by adding external resistor to Range 1 per following formula:

$$E_o = \frac{1}{C_1(R_x)} \int E dt \text{ where } E_o = \text{mV}$$

$C_1 = 10\mu\text{F}$

t_1 to t_2 is the time the gate is on

ORDER INFORMATION

RANGE	Rx	CTS/SEC/mV	!	!	!	POWER/RELAYS-TRIAC
1	1 K	100,000	!	!	!	0-5Vdc, No Relays
2	10 K	10,000	!	!	!	1-5Vdc, w/Relays
3	100 K	1,000	!	!	!	2-12Vdc, No Relays
4	1 M	100	!	!	!	3-12Vdc, w/Relays
5	10 M	10	!	!	!	4-115/230Vac, no Relays
			!	!	!	5-115/230Vac, w/Relays
			!	!	!	6-5Vdc w/Triacs
			!	!	!	7-12Vdc w/Triacs
			!	!	!	8-115/230Vac w/Triacs
			!	!	!	PEAK & HOLD OPTION
			!	!	!	0-None
			!	!	!	1-Peak & Hold

Connectors Included
SPECIFICATIONS AND PRICE SUBJECT TO CHANGE WITHOUT NOTICE
