

**STRAIN GAUGE INPUT
PROCESS CONTROLLER
WITH DUAL LIMITS
MODEL 706**



NOTE: REFER TO PAGE 28 FOR DESCRIPTION OF MAINFRAME.

DESCRIPTION

The 706 was specifically designed for low level signal control such as load cell, pressure transducer outputs of mV/V, or microvolt signals. This low level signal is conditioned and amplified to the 2 VDC full scale level of the A/D on the mainframe. Coarse & fine zero adjustment and full scale allow for a wide range of engineering units calibration.

TARE: Internal push button or external switch closure will automatically zero (dead weight) the display.

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

SPECIFICATIONS AT 25°C

Input Type-----Single Ended or Differential, Bipolar
CMRR-----80dB at DC-60Hz
CMV-----+/- 2 VDC or RMS
Accuracy & Linearity-----+/-0.01% of Full Scale
Drift vs Temperature-----+/- 0.005% of Full Scale/°C
Ratiometric Range--0.1 to 2 VDC to Ref In (optional)
Warm-Up Time-----5 minutes

FEATURES

- >SEE BASIC MAINFRAME ON PAGE 28 FOR STANDARD SYSTEM'S FEATURES
- >PROGRAMMABLE GAIN TO 200
- >BUILT-IN EXCITATION
- >PEAK & HOLD/RECALL
- >TARE (PUSH TO ZERO)

EXCITATION An optional high stability (+/-0.1%) 10 VDC at 40mA excitation is available or a constant current 1.8mA source +/- 20% at +/- .1% regulation is available.

ORDER INFORMATION

MODEL 706 X X X X				
RANGE/EXCITATION	!	!	!	EXCITATION OPTION
--0--200mVDC	!	!	!	!-0--No Excitation---NC
--1--200mV/10V	!	!	!	!-1--10VDC-----
--2--20mVDC	!	!	!	!-2--1.5mA D-----
--3--20mV/10V	!	!	!	! TARE OPTION
--4--200mV/1mA	!	!	!	!-0--No Tare Option-----
--5--20mV/10V	!	!	!	!-1--Tare Option-----
	!	!	!	! POWER/RELAYS-TRIACS
PEAK & HOLD OPTION	!	!	!	!-0--5VDC, No Relays----
--0--None	!	!	!	!-1-5 VDC, w/Relays-----
--1--Peak & Hold	!	!	!	!-2--12 VDC, No Relays----
	!	!	!	!-3--12 VDC, w/Relays----
	!	!	!	!-4--115/230 VAC, No Relays-
	!	!	!	!-5--115/230 VAC, w/Relays--
	!	!	!	!-6--5 VDC w/Triacs-----
	!	!	!	!-7--12 VDC w/Triacs-----
	!	!	!	!-8--115/230 VAC w/Triacs-

**SPECIFICATIONS AND PRICE
SUBJECT TO CHANGE
WITHOUT NOTICE**

**CURRENT LOOP
PROCESS CONTROLLER
WITH DUAL LIMITS
MODEL 707**



NOTE: REFER TO PAGE 28 FOR DESCRIPTION OF MAINFRAME.

DESCRIPTION

The 707 differs from most 2 wire indicators; since, it not only scales, controls and displays the input signal, but it detects when the input signal falls outside certain limits. The adjustable under-over analog detector forces the display to flash when the signal is 10% below "0" or 100% above 10000 and it is field adjustable.

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

SPECIFICATIONS AT 25°C

Accuracy and Linearity-----+/-0.01% +/- 1 Digit
Temperature Coefficient-----+/- 50 PPM/°C
Overload Indication-----Display Flashes
Zero Control-----+/-500 Counts
Span Control-----+/-2500 Counts
Analog Output-----0-2Vdc at 1mA
Excitation-----24 Vdc, 40mA Max

FEATURES

- >SEE BASIC MAINFRAME ON PAGE 28 FOR STANDARD SYSTEM'S FEATURES
- >PEAK & HOLD/RECALL
- >ZERO & SPAN ADJUST
- >DETECTS OPEN/SHORTED XMTR
- >SEE OUR SERIES 50/51 HOCKEY PUCK TRANSMITTERS ON PAGE 56

Input	Impedance	Readout	Power
4-20mA dc	50Ω	000-10000	40ma
1-5mA dc	200Ω	000-10000	20ma
0-20mA dc	50Ω	000-10000	40ma
10-50mA dc	20Ω	000-10000	75ma
0-5Vdc	100KΩ	000-10000	300 Volts
All Others	100KΩ	000-10000	300 Volts

ORDER INFORMATION

MODEL 707 X X X X				
RANGE	!	!	!	EXC. OPTION
-0---0-20 m Adc	!	!	!	!-0--No Excitation
-1---1-5 m Adc	!	!	!	!-1--24 VDC Excitation
-2---4-20 m Adc	!	!	!	! POWER/RELAYS-TRIACS
-3---10-50 m Adc	!	!	!	!-0-5 VDC, No Relays
-4---0-5 Vdc	!	!	!	!-1-5 VDC, w/Relays
-5---1-5 Vdc	!	!	!	!-2-12 VDC, No Relays
-6---0-10 Vdc	!	!	!	!-3-12 VDC, w/Relays
-7 -10V+10 Vdc	!	!	!	!-4-115/230 VAC, No Relays
	!	!	!	!-5-115/230 VAC, w/Relays
PEAK & HOLD OPTION	!	!	!	!-6-5 VDC w/Triacs
--0--None	!	!	!	!-7-12 VDC w/Triacs
--1--Peak & Hold	!	!	!	!-8-115/230 VAC w/Triacs

**STANDARD CALIBRATION IS 0-10,000 COUNTS
SPECIFICATIONS AND PRICE SUBJECT TO CHANGE WITHOUT NOTICE**