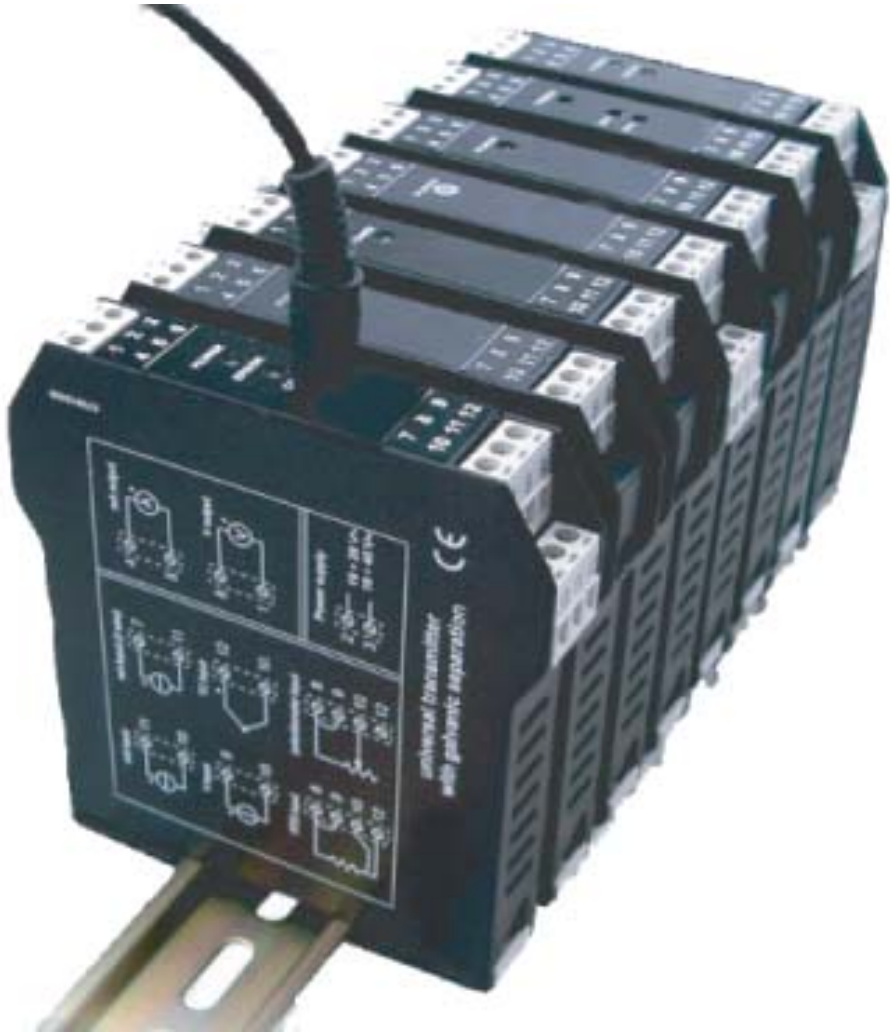
Unipak

Universal Signal Conditioners & Alarms



- DC SIGNAL CONDITIONERS FOR ALL INPUT TYPES
- MULTI-CHANNEL DC ALARM MODULES
- MATH FUNCTION MODULES
- LOOP POWERED ISOLATORS
- SIGNAL SPLITTERS

WIDE RANGING DESIGN

All units are wide ranging and fully adjustable via DIP switches

TRANSMITTER POWER

Selectable Transmitter power available on all current input units

3-WAY ISOLATION

1500V, 3-way isolation on all units

COMPACT DESIGN

17.5mm (3/4") wide packaging on all units

REMOVABLE TERMINALS

Removable 2-piece terminals for easy wiring and quick change outs

FLEXIBLE MOUNTING

All units support both DIN-rail and Panel Mounting

INDUSTRIAL SPECS

All units designed to operate at 0-60°C and up to 95% R.H.

AGENCY APPROVED

CE, UL and CSA approvals plus Class 1, Div. 2 on some units

TECHNICAL SPECIFICATIONS

Model UP488 - Universal DC Signal Conditioners w/ Alarm Trip (mA, mV, V, TC, RTD, Pot)

INPUT	OUTPUT	PERFORMANCE
Voltage: Adjustable from 0-10mV to ± 20V Current: Adjustable from 0-1mA to ± 20mA T/C : type J,K,R,S,T,E,B,N (any range) RTD: PT100, PT500, PT1000, 2,3 or4-wire, (any range) Pot: any pot from 500Ω to 10KΩ	Voltage: 0-5V, 1-5V, 0-10V, 2-10V Min. Load Z: 2.5MΩ Current: 0-20mA, 4-20mA Max. Load Z: 600Ω Relay: (1) SPST (programmable setpoint)	Linearity: 0.01% (typical) Stability: better than 0.02% f.s/°C Isolation: 1500Vac (3-way) Response Time: 35mS - 140mS (selectable) Power Consumption: 2.5W max. Transmitter Power (on mA input): 20Vdc min. @ 20mA max. (short circuit protected)

Model UP448 - Strain Gauge Signal Conditioners

Strain Gauge: 4/6-wire bridge connections, supports up to (4) 350Ω Load Cells, or (8) 1KΩ Load Cells. Excitation: 5V DC Digital In: Selectable for Tare Calibration or Threshhold Weight	Voltage: 0-5V, 0-10V Current: 0-20mA, 4-20mA Max. Load Z: 600Ω Digital: 1 channel for Stable Weight or Threshold Weight	Linearity: 0.01% (typical) Stability: better than 0.0025% f.s/°C A/D Resolution: 24-bit Isolation: 1500Vac (3-way) Response Time: <10mS Power Consumption: 2.5W max. Modbus Interface: RS-485 Modbus RTU Slave

Model UP468V/I - AC (Voltage or Current) Signal Conditioners

UP468I (AC Current): 0-5A, 0-10A Range Adjustment: via DIP switches UP468V (AC Voltage): 0-500V Range Adjustment: via DIP switches Input Z: 2KΩ/Volt Input Frequency: 10Hz to 1000Hz	Voltage: 0-5V, 1-5V, 0-10V, 2-10V Min. Load Z: 2.5MΩ Current: 0-20mA, 4-20mA Max. Load Z: 600Ω	Linearity: 0.25% (typical) Stability: better than 0.02% f.s/°C Isolation: UP468I: 2500V; UP468V: 1500V Response Time: UP468I:200mS UP468V: 30mS Power Consumption: 2.5W max. Modbus Interface: RS-485 Modbus RTU Slave

Model UP478 - Frequency Input Signal Conditioners

Frequency: Adjustable, 0-1Hz to 0-10KHz Input types: Magnetic, Contact/Reed, Photoelectric, Hall effect Variable reluctance Filtering: Pulse averaging	Voltage: 0-5V, 1-5V, 0-10V, 2-10V Min. Load Z: 2.5MΩ Current: 0-20mA, 4-20mA Max. Load Z: 600Ω	Linearity: 0.1% (typical) Stability: better than 0.02% f.s/°C Isolation: 1500Vac (3-way) Sensitivity Adjust: 100mV minimum Response Time: 250mS Power Consumption: 2.5W max.

Model UP498 - Adder/Subtractor Modules (2-channel)

2 channels, each configurable for: Voltage: 0-5V, 1-5V, 0-10V, 2-10V Input Z: 500KΩ Current: 0-20mA, 4-20mA Input Z: 100Ω	Voltage: 0-5V, 1-5V, 0-10V, 2-10V Min. Load Z: 2.5MΩ Current: 0-20mA, 4-20mA Max. Load Z: 600Ω	Linearity: 0.05% (typical) Stability: better than 0.02% f.s/°C Isolation: 1500Vac (3-way) Response Time: 250mS Power Consumption: 2.5W max. Transmitter Power (on mA input): 20Vdc min. @ 20mA max. (short circuit protected)

Model UP409 - DC Signal Splitters (1 in, 2 out)

Voltage: 0-5V, 1-5V, 0-10V, 2-10V Input Z: 500KΩ Current: 0-20mA, 4-20mA Input Z: 100Ω	2 Isolated and Independent Outputs, each configurable for any of the following ranges: Voltage: 0-5V, 1-5V, 0-10V, 2-10V Min. Load Z: 2.5MΩ Current: 0-20mA, 4-20mA Max. Load Z: 600Ω	Linearity: 0.05% (typical) Stability: better than 0.02% f.s/°C Isolation: 1500Vac (3-way) Response Time: 250mS Power Consumption: 2.5W max. Transmitter Power (on mA input): 20Vdc min. @ 20mA max. (short circuit protected)

Model UP108S/D/T - Alarm Trip Modules

Voltage: 0-5V, 1-5V, 0-10V, 2-10V Input Z: 500KΩ Current: 0-20mA, 4-20mA Input Z: 100Ω	Relay Outputs: UP108S: Single Relay Output (SPDT) 5A @ 250VAC, 1A @ 30VDC UP108D/T: Dual/Triple Relay Output (SPST) 100mA @ 30VAC/DC, 10VA Configurable HI/LO, Deadband & Delay	Linearity: 0.05% (typical) Stability: better than 0.02% f.s/°C Isolation: 1500Vac (3-way) Power Consumption: 2.5W max. Transmitter Power (on mA input): 20Vdc min. @ 20mA max. (short circuit protected) Setpoint Adjustment: 1-100% Deadband Adjustment: up to 15%