



ULTROL™ CPA

Control Panels-Airline Series

APPLICATIONS

ULTROL Airline Series Control Panels (CPA) are designed and built to the high-technological standards required by today's engineers for precise airflow and environmental pressure control.

Several standard models are available for the measurement, indication, and control of duct static pressure, variable volume supply-and-return fan synchronization, laboratory or clean room static pressure and flow, as well as, manual control and alarm systems.

The panels are normally supplied as components in a complete airflow measuring and control system which includes flow and pressure sensors. See ULTRAC Specifications.

DESCRIPTION

ULTROL Airline Panels are constructed to industrial process plant standards to provide long-term, trouble-free operation with minimum maintenance. Equipment is installed in NEMA 1 enclosures with removable, internal instrument-mounting panels.

Sizes vary from 12" x 16" to 36" x 48" as required.

Standard specifications describe the equipment most often furnished. Panels will vary according to specifications for a particular system.

Airline Series Panels may be combined to economically meet a project specification.

AVAILABLE OPTIONS

- AL - Alarm sensing switches, electric
- AT - Alarm light, audible device, acknowledge button, electric
- AP - Alarm, pneumatic visual indicator, two states
- KL - Key locking front panel
- G6 - Custom gauge, 3 1/2" dial, 3-15 psig receiver
- G7 - Custom gauge, 4 1/2" dial, 3-15 psig receiver
- G8 - Custom gauge, 6" dial, 3-15 psig receiver
- G9 - Dry-type indicating gauge, filter maintenance
- NP - Night cycle, pneumatic remote control provision, 20 psig
- NE - Night cycle, electric remote control provision, 115 VAC
- SS - Summing of multiple signals
- SP - Remote setpoint regulator w/indicating gauge
- FR - Fire resistant internal tubing
- SL - Selector switch for selection of control point
- PI - Pneumatic transducer, for electronic output signal
- IP - Current to pneumatic transducer, for electric input signal
- IR - Indicating recorder
- FP - Fan operating switching valve, 0-20 psig pneumatic
- FE - Fan operating switching valve, 115 VAC electric
- OP - Overpressure protection, purging transmitters
- ZZ - Special provision (identify requirements)

STANDARD SPECIFICATIONS

ENCLOSURE: NEMA 1 with removable inner mounting panel. 14-gauge steel
 EXTERNAL FINISH: Primed, painted light gray
 INTERNAL FINISH: Primed
 INNER PANEL FINISH: Primed, white enamel topcoat
 INTERNAL INTERCONNECTION FITTINGS: Brass, barb-type
 INTERNAL TUBING: 1/4" o.d. polyethylene and 1/8" o.d. tygon
 FIELD MOUNTING PROVISIONS: Slotted holes in enclosure back
 RG-AIR SUPPLY: 250 psig internal regulator, 5-micron filter & oil sensor
 PROCESS CONNECTING FITTINGS: Brass bulkhead with 1/4" female coupling
 IDENTIFICATION NAMEPLATES: Laminated plastic, 1" x 3" with black & white letters
 G1-DRY-TYPE INDICATING GAUGES: Flow, static pressure and filter indications; Dwyer Magnehelic
 G2-PROCESS INDICATING GAUGES: 3 1/2" 3-15 psig receiver
 G3-SETPOINT INDICATING GAUGES: 3 1/2" 3-15 psig receiver
 G4-CONTROLLER OUTPUT GAUGES: 2 1/2" 0-30 psig
 G5-AIR SUPPLY PRESSURE GAUGES: 2 1/2" 0-30 psig
 PROCESS SETPOINT ADJUSTMENT METHOD: Variable air pressure regulator

ORDERING INFORMATION

	ULTROL CPA - - - - / - - - -
STANDARD ULTROL CPA CAPAIR	OPTIONS
Indicate duct static pressure Indicate duct airflow Measure and control duct static pressure or duct airflow Three-mode controller with G-4 output gauge; Adjustable setpoint station; Panel air supply RG with G-5 supply gauge (Frequent options: KL,G9,NP,NE,SS,AL,G6,FP,FE,OP)	
STANDARD ULTROL CPA PRESAIR Indicate room pressure Measure and control room pressure Indicate supply or exhaust airflow Three-mode controller with G-4 output gauge; Adjustable pressure setpoint station; Panel air supply RG with G5 supply gauge (Frequent options: KL,AP,AL,G6,OP)	
STANDARD ULTROL CPA DELTAIR Indicate supply fan static pressure Indicate supply duct airflow Indicate return or exhaust duct airflow Control supply fan static pressure Control differential flow between supply and return airflows Multiple three-mode controllers with G-4 output gauges; Multiple square root extractors (flow linearization); Multiple adjustable setpoint stations with G-3 setpoint gauges; Panel air supply RG with G5 supply gauge (Frequent options: KL,NP,NE,G9,SS,G6,FP,FE,OP)	
STANDARD ULTROL CPA SIMPLAIR Indicate process variable (pressure or flow) Adjust process setpoint station for manual control Indicate process setpoint with G3 setpoint gauge Panel air supply RG with G5 supply gauge (Frequent options: KL,AP,AL,G6,OP)	

NOTE: Customer specifications vary. The descriptions above are intended to describe the functions of standard panels. Actual functions are fully described on bid and submittal documents or each installation.