

LFA PNEUMATIC CONTROL

L F 0 4

BASIC LFA MODEL

ACCESSORIES

Description	Code
None	0
201 Weather Resistant (requires inverted scale)	1

HOW TO ORDER

First select the proper ordering number for the LFA unit. Next consult element selection matrix, see Page 62. Select dial part number, see page 65, and specify as a separate line item. The dial selected must correspond to specific range of sensing element selected. The LFA instrument requires a hollow (L-Type) element plunger (code 51 or 52). High ambient temperature head assembly (code 51) is used when the instrument will be located in ambient temperatures between 32°F but not greater than 150°F. Low ambient head assembly should be called out (code 52) when the instrument will be located in ambient temperatures between -30°F and 125°F. If the solution the sensing bulb is being immersed in is of a corrosive nature, see Form 3052, "Guide for use in Corrosive Applications".

Sample Order:

Description	Required Number
LFA Unit	LF040
with Dial	00601739 (from page 65)
with element	109510520 (from page 62 and 63)

For pricing see Form 3028, Mechanical Price Book, page 11.

ABOUT THIS INSTRUMENT

Indicating Controls

Description

Pneumatic controller used in conjunction with an air-operated valve for control of steam, gas or fuel for combustion equipment or to operate other pneumatic devices. Requires approximately 16 psi input; air output is 3 to 15 psi. Throttling span is 5% to 25% of scale range. Flush or wall mount, available in twelve optional ranges within -30 to 1100°F.

Operation

As the indicating pointer, moving up or down scale in response to the expansion or contraction in the thermal element, enters the throttling range and approaches set point, it changes the effective orifice in the instrument's bleed valve.

Depending upon its control action (reverse or direct acting), this increases or decreases the pressure delivered to the remotely placed air-operated control device.

Pressure transmitted by the control instrument is reflected by the valve position of the air-operated device which modulates the flow of heating or cooling medium.

Load error, inherent in throttling controls, is compensated by manual reset adjustment.

Note: For long air line feeds, ie. 10 feet or greater, or large volume valves or control devices, an air pressure booster is strongly recommended.

Specifications

Dimensions	8 5/8" W x 8"H x 4 9/32" D
Flush Mount Cutout	7" W x 7 3/4" H
Surface Mounting	Mounting brackets included.
Air Hookup	1/4-NPT inlet and outlet openings at top and back of case.
Air Input Requirements	Approximately 16 psi.
Air Output Pressure	3 to 15 psi.
Air Consumption	12 cfh maximum.
Throttling Span	Adjustable from 5 to 20% of element range.
Load Error Adjustment	Manual reset for load error compensation.
Control Action	Reverse Acting, std; Direct Acting, field adjustable.
Air Gauges	Inlet and outlet - both gauges provide for English and Metric scales.
Warranty	One year, see page 80 for details.
Approx. Net Weight*	6 lbs.
Approx Ship. Weight*	8 lbs.

*Weight may vary depending on element length.

