

35 mm DIN rail controller



Advantages / Benefits

- ▶ Spanable controller with up to three set points, two relay outputs and isolated 4-20 mA repeater
- ▶ Easy-Cal™, push button calibration for offset, span and relay set points
- ▶ Four segment LED digital display indicates 4-20 mA reading or user selected engineering units
- ▶ LED bar graph indicates 4-20 mA reading as a percentage of span with relay set points
- ▶ LED indicators for power and relay output status
- ▶ Adjustable relay time delay from 0-60 seconds
- ▶ Invert switch for selectable NO / NC operation
- ▶ Security access lock out

Application

Level Control

High and low level switch prevents tank overfills and product shortage or protects pumps and immersion heaters.

Automatic fill or empty operation maintains product level between two set points.

Automatic fill or empty with alarm operation maintains product level between two set points with an independent high or low switch.

Outputs

The 12 amp, SPDT relays provide direct control of pumps or valves.

The 4-20 mA repeater provides an isolated signal with external control devices.

Interface

Level

Type 8160
ultrasonic level transmitter

Type 8100
capacitance level transmitter

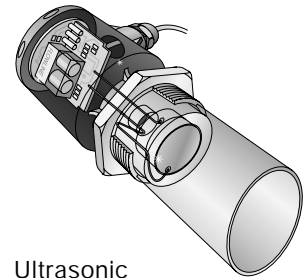
Faceplate

Level Transmitters



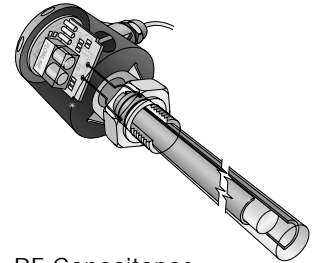
The Type 8620 controller is an ideal product for a wide variety of continuous level applications. Complete your package with one of Burkert's unique transmitters.

Type 8160



Ultrasonic Transmitter

Type 8100



RF Capacitance Transmitter

Guide to Controls

POWER
 AC AC GND
 120 VAC, 50 - 60 Hz
 240 VAC, 50 - 60 Hz

OUTPUT
 NO NC
 240 VAC 120 VDC

OUTPUT
 NO NC
 240 VAC 120 VDC

POWER **LATCH** **ON OFF**

INVERT **DELAY**
 OFF ON

RELAY 1 **RELAY 2**

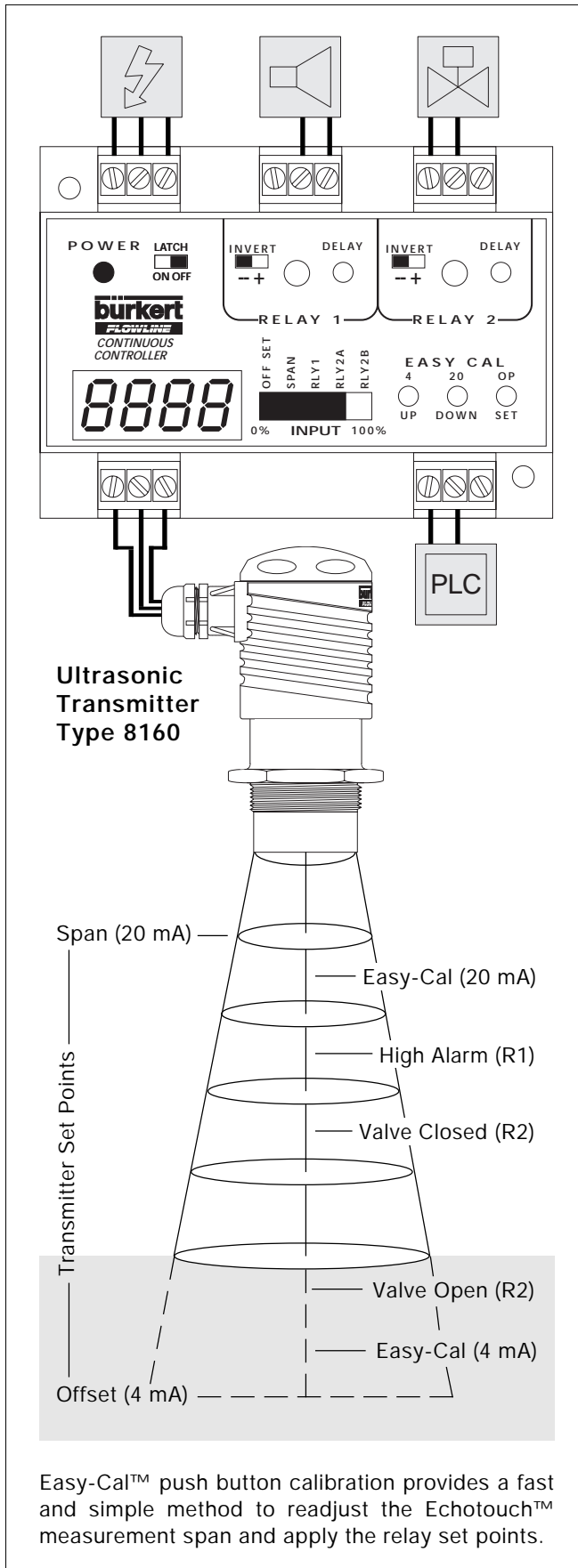
OFF SET **SPAN** **RLY1** **RLY2A** **RLY2B** **EASY CAL**
 0% **INPUT** 100%

INPUT
 (+) (-) (+)
 24 VDC **GND** 14 VDC
 5 Watt **Max** 4-20 mA

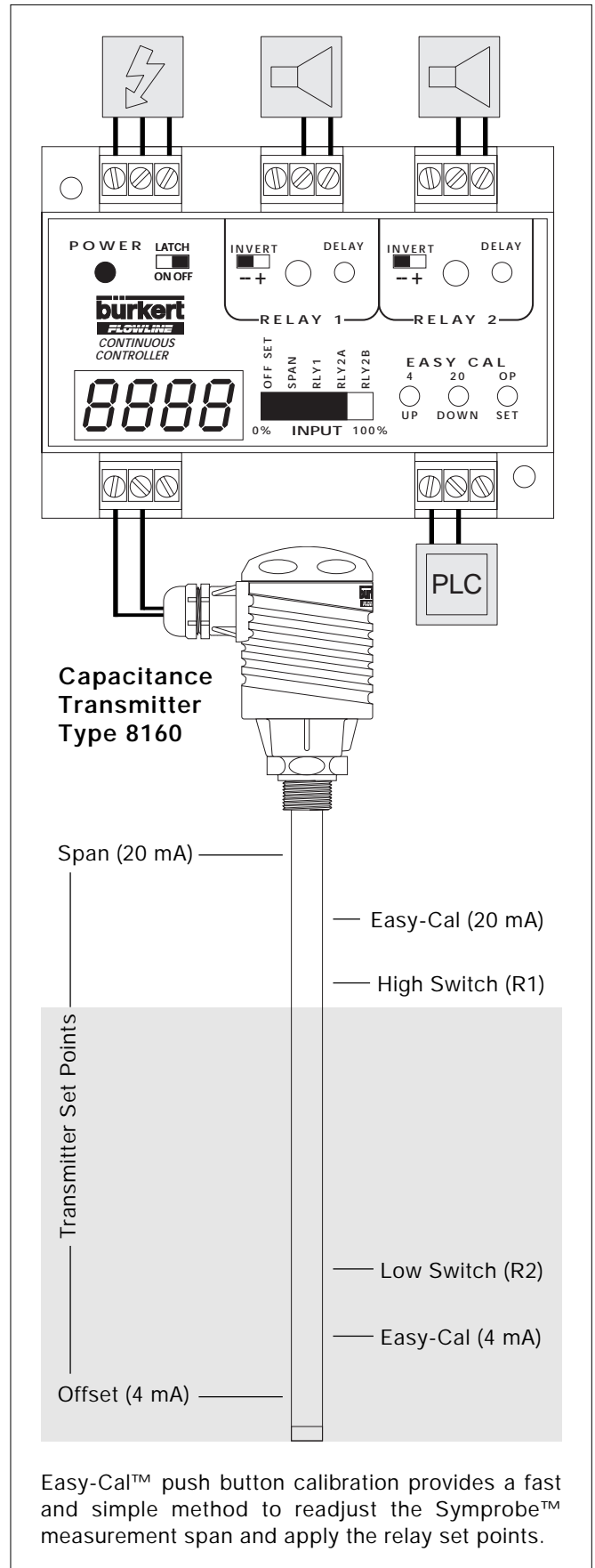
REPEATER
 (+) (-) GND
 4-20 mA
 12-36 VDC

- The power indicator will light when 240/120 VAC power is turned on.
- The relay indicator will light when the 12 amp relay is energized.
- The 240/120 VAC power is connected to these terminals.
- The NO / NC controlled device is connected to these terminals.
- The invert reverses the NO / NC relay logic.
- The delay sets a 0-60 second period before the relay will respond.
- The display indicates the 4-20 mA reading or user engineering units.
- The 2/3-wire transmitter input is connected to these terminals.
- The latch determines whether R2 will respond to one or two set points.
- The bar graph indicates the 4-20 mA reading as a function of span.
- The OP/SET is used to scroll between set points.
- The 20/DOWN is used to place the 20 mA set point or decrease values.
- The 4/UP is used to place the 4 mA set point or increase values.
- The 4-20 mA repeater output requires external 12-36 VDC power.

Automatic Fill / Empty with Alarm Configuration



High and Low Level Switch Configuration



Technical Data

Voltage input: 240 / 120 VAC at 50-60 Hz.
 Current consumption: 0.25 amps
 Sensor supply voltage: 24 VDC, 5 Watt maximum

Signal input: 4-20 mA, 14 VDC
 Offset adjustment: Easy-Cal™ push button (4 mA)
 Span adjustment: Easy-Cal™ push button (20 mA)
 Controller set points: 1 point: High or low alarm
 2 point: High and low alarm
 3 point: Fill / empty with alarm

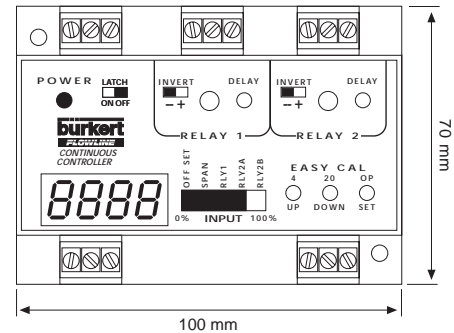
Indication: LED for power and relay status
 Numerical display: 4 segment digital display
 Bar graph display: 4-20 mA span / set points
 Alarm indication: Amber LED: Below 4 mA
 Red LED: Above 20 mA

Relay output: Two, 12 amp SPDT
 Switch voltage: 240 VAC / 120 VDC (resistive)
 Relay invert: Selectable, NO or NC
 Relay latch: Selectable, ON or OFF
 Relay time delay: 0.15 - 60 seconds
 Contact resistance: 30 milliohms (max current/volt)
 Repeater output: Isolated, 4-20 mA, 12-36 VDC
 Power fail safe: Form C relays

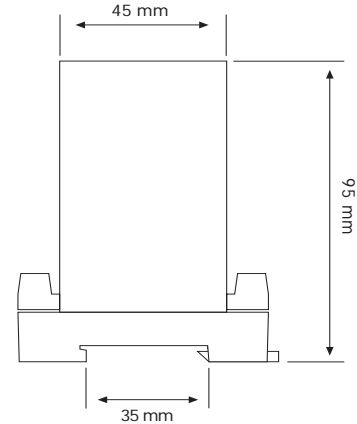
Temperature rating: -20 to 70 °C.
 Enclosure rating: IP 40
 Enclosure material: PP, flame retardent (U.L. 94VO)
 Enclosure dimensions: 100 mm x 95 mm x 70 mm
 Enclosure mounting: 35 mm DIN rail (at wall)

Dimensions

8620
Top View



8620
Side View



Ordering Chart for Rail Mount Controller

Description	Order-No.
Rail Mount Controller Type 8620, Standard 240/120 VAC	417 398 T