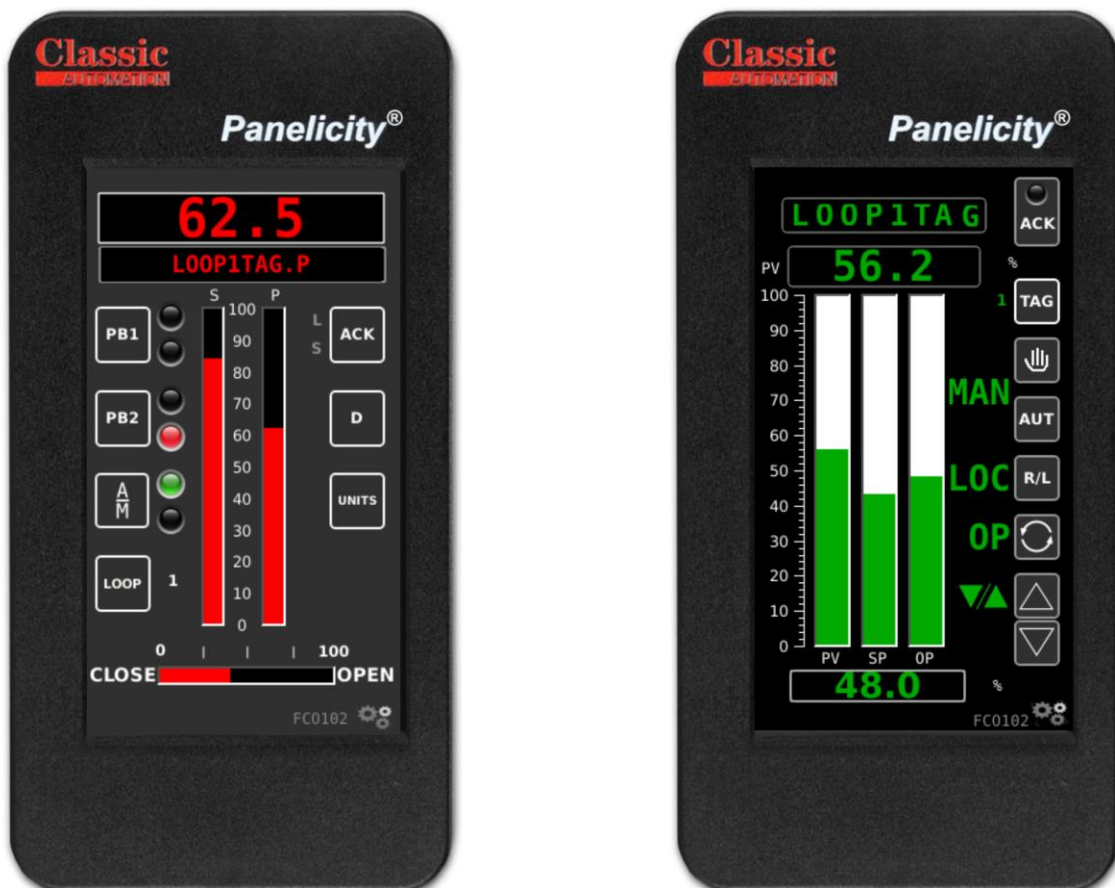


# Panelicity® Series 36

Process Automation Control Made Simple



3x6 Controller (1/2 DIN)

**Panelicity® Series 36** is a powerful process panel controller in a small package with pre-defined displays, alarms, trends, and standard industrial control strategy templates. It simplifies new installations and upgrades of older obsolete panel controllers.

Implement two or more temperature, pressure, flow, or level control loops with just one slim 3x6 controller (1/2 DIN.) This unit mounts easily and eliminates panel depth restrictions.

## Reasons to Choose Panelicity:

- Easy Installation and Configuration
- Intuitive Menu Options
- Small Footprint
- Low Total Cost

## Cost Effective

**Panelicity®** saves you money. Simple, intuitive menus allow all entries from the display with minimal operator training.

Classic Automation provides the support you need with an industry leading 2-year warranty.

## Technology

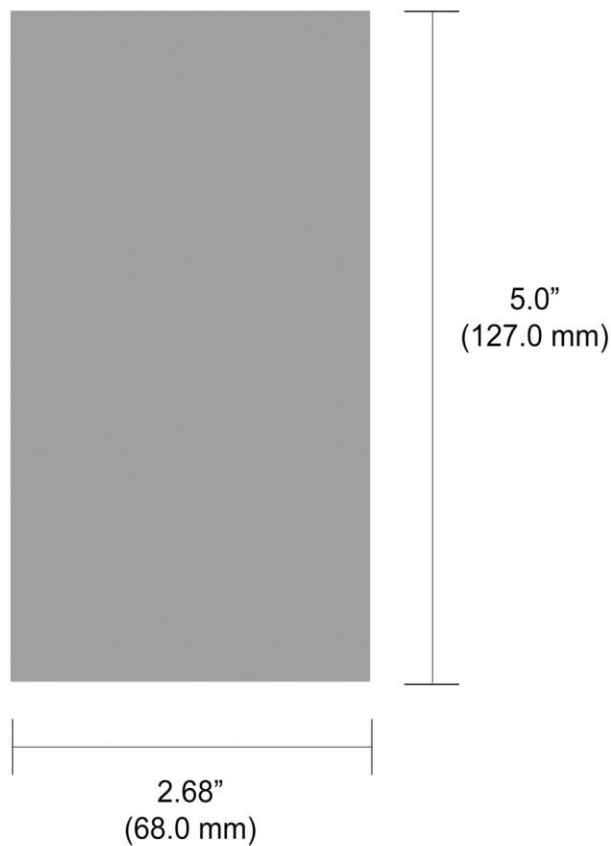
- Full color touch screen with integrated PLC
- Field proven hardware with an installed base of 6,000+ units around the world
- Advanced features such as trending and alarm history
- Secure backups on a USB flash drive
- Implement one or multiple control loops with a single controller

## Easy Installation

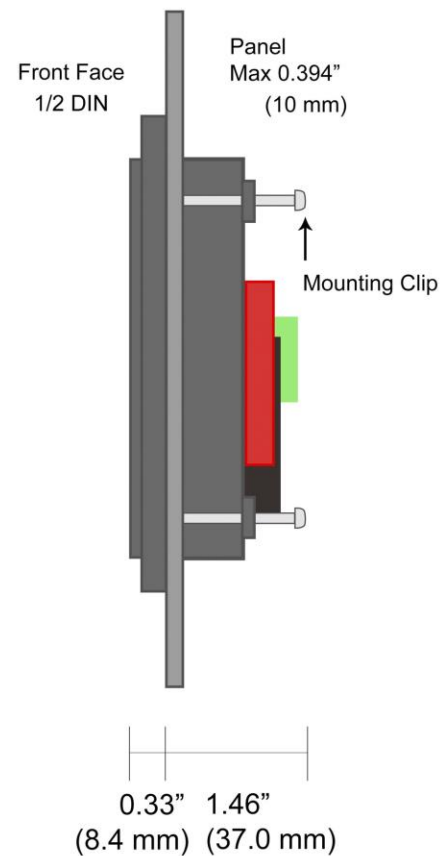
The **Panelicity®** 3x6 controller extends less than 2 inches into the panel for use in areas with depth restrictions. Panel depth is 2.25 inches when an ethernet cable is attached.

## Controller Installed In Panel

### Panel Cutout



### Side View



A simple cutout in your panel is all that is required to install **Panelicity®**.

The controller draws low power, consuming under 500mA. The unit is slim and mounts easily. A 24V power supply is required and is available as an option when ordering.

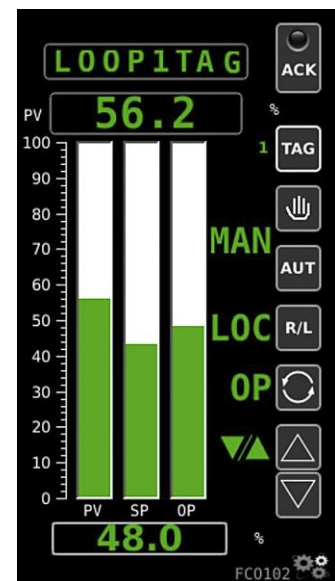
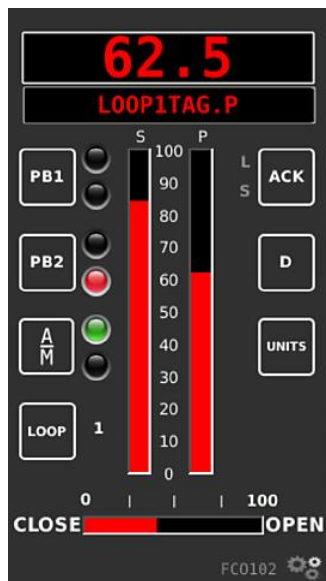
## Applications

**Panelicity**<sup>®</sup> is easy to configure for most applications. We use standard control strategies suitable for most applications. Custom software is usually not required.

Typical applications for **Panelicity**<sup>®</sup> include:

- Industrial temperature, pressure, flow, level control
- Boiler combustion control
- Boiler level and feed water flow control
- Chemical liquid blending for paint, inks, dyes, etc.
- Pressure control for critical control loops
- Many others

## Operator Interface



The **Panelicity**<sup>®</sup> displays feature intuitive icons for navigating menus compared to traditional 3x6 controllers. Typical setup parameters such as I/O types, ranges, and PID parameters are logically organized with no need to learn special software. Up to 5 alarms and 5 digital outputs can be defined for each control loop. Control templates have a data entry table to document your settings for back-up. Security access authority is provided to eliminate unauthorized field changes.

## Ordering Structure

TPAC100704A **A** 4T624Vu1CA

Model ( **A** or **B** )

Model A I / O	Configurations Inputs / Outputs
2	Analog Inputs 0-10V, 1-5V, 0-20 mA, 4-20 mA, PT100, J, K, T, S, B,R
2	Analog Outputs 0-10V, 1-5V, 0-20 mA, 4-20 mA
5	Digital Outputs

Model B I / O	Configurations Inputs / Outputs
2	Analog Inputs 0-10V, 1-5V, 0-20 mA, 4-20 mA, PT100, J, K, T, S, B, R
2	Analog Outputs 0-10V, 0-20 mA, 4-20 mA, PWM
2	Analog Outputs 0-10V, PWM
1	Digital Input
8	Programmable Digital Inputs / Outputs
3	Analog Inputs 0-10V

## Model A

# TPAC100704A **A** 4T624Vu1CA

Preprogrammed for standard control strategies

Number of I / O	Configurations Inputs / Outputs
2	Analog Inputs 0-10V, 1-5V, 0-20 mA, 4-20 mA, PT100, J, K, T, S, B,R
2	Analog Outputs 0-10V, 1-5V, 0-20 mA, 4-20 mA
5	Digital Outputs

### Part Number:

**TPAC100704A **A** 4T624Vu1CA**

Controller w/ Integrated I/O  
Touch-Screen 4.3", Vertical  
2 AI 0-10V/1-5V/0-20mA/4-20mA/PT100/TC  
2 AO 0-10V/1-5V/0-20mA/4-20mA  
4 DO PNP

## Model B

# TPAC100704A **B** 4T624Vu1CA

Use for Applications that require additional I/O functionality not available in existing standard control template strategies.

Number of I / O	Configurations Inputs / Outputs
2	Analog Inputs 0-10V, 1-5V, 0-20 mA, 4-20 mA, PT100, J, K, T, S, B, R
2	Analog Outputs 0-10V, 0-20 mA, 4-20 mA, PWM
2	Analog Outputs 0-10V, PWM
1	Digital Input, PNP or NPN
8	Programmable Digital Inputs/Outputs, PNP
3	Analog Inputs, 0-10V

### Part Number:

**TPAC100704A **B** 4T624Vu1CA**

Controller w/ Integrated I/O  
Touch-Screen 4.3", Vertical  
2 AI 0-10V/1-5V/0-20mA/4-20mA/PT100/TC  
2 AO 0-10V/1-5V/0-20mA/4-20mA/PWM  
2 AO 0-10V/PWM  
1 Digital Input PNP or NPN  
8 Programmable DI/DO PNP  
3 AI 0-10V

## Accessories

### Part Numbers:

**CA-ACIN01**

5 Double-Throw Relay Output Module

**CA-CAB-11604**

Female A to Micro A – 4” Cable

**CA-TSVL 5-24-100**

24 VDC Power Supply, 5 AMP

**CA-TSVL 2-24-100**

24 VDC Power Supply, 2 AMP

**CA-BACKUP-DRIVE**

USB Flash Drive with CA Software, 8 GB



## Controller Technical Specifications

<b>Power Supply Voltage</b>	12-28VDC
<b>Power Consumption</b>	<500mA
<b>Operating Temperature</b>	32°F (0°C) to 131°F (55°C)
<b>Storage Temperature</b>	-4°F (-20°C) to 185°F (85°C)
<b>Relative Humidity</b>	5% to 95% non-condensing
<b>Front Face Rating</b>	IP65 (water resistant)
<b>Housing</b>	ABS, Polycarbonate
<b>Touchscreen</b>	Resistive, 4 wires
<b>Micro-USB</b>	Host 2.0
<b>MODBUS TCP</b>	Master/Client <i>Standard configuration allows Slave functionality</i>
<b>Panel Cutout</b>	Width 2.65" (68mm) x Height 5" (127mm)
<b>Controller Dimensions (Including Bezel)</b>	Width 3.15" (80mm) x Height 6.14" (156mm) x Depth 1.46" (37mm)  <i>*Depth is the depth behind the panel. An additional 0.25" is needed for use with Ethernet cable.</i>
<b>Ethernet</b>	10M / 100Mbit/s - auto recognition Supports patch or crossover cable
<b>Approvals</b>	CE Approved, UL Approval Pending

Analog Inputs, Universal (2)	
Type	Current
Input Range	0 to 20 mA
Resolution	0.005 mA
Impedance	8 ohm
Type	Current
Input Range	4 to 20 mA
Resolution	0.005 mA
Impedance	8 ohm
Type	Voltage
Input Range	0 to 10 VDC
Resolution	0.003 V
Impedance	500 k $\Omega$
Type	Voltage
Input Range	1 to 5 VDC
Resolution	0.003 V
Impedance	500 k $\Omega$
Type	T/C Type J
Input Range	32° F (0° C) to 1,112° F (600° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes
Type	T/C Type K
Input Range	32° F (0° C) to 2,192° F (1,200° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes
Type	T/C Type T
Input Range	32° F (0° C) to 752° F (400° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes
Type	T/C Type S
Input Range	32° F (0° C) to 2,912° F (1,600° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes

Type	T/C Type B
Input Range	1,112° F (600° C) to 3,272° F (1,800° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes
Type	T/C Type R
Input Range	32° F (0° C) to 2,732° F (1,500° C)
Resolution	1.8°F (1°C)
Cold Junction Compensation	Yes
Type	RTD, PT100E
Input Range	-40° F (-40° C) to 1,472° F (800° C)
Resolution	1.8°F (1°C)
Type	RTD, PT100R
Input Range	-40° F (-40° C) to 392° F (200° C)
Resolution	0.18°F (0.1°C)

Analog Outputs, Universal (2)	
Type	Current
Input Range	0 to 20 mA
Resolution	0.01 mA
Max Load Impedance	400 ohm
Type	Current
Input Range	4 to 20 mA
Resolution	0.01 mA
Max Load Impedance	400 ohm
Type	Voltage
Input Range	0 to 10 VDC
Resolution	0.01 V
Min Load Impedance	1kΩ
Type	Voltage
Input Range	1 to 5 VDC
Resolution	0.01 V
Min Load Impedance	1kΩ

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Digital Outputs, (4)	
Type	PNP
Max Current Load	200 mA

Our calibration configuration allows you to specify a smaller operating range for calibration for certain input types to achieve increased accuracy for the input.

## Industrial Control Strategy Templates

FCO101	Single Loop Control w/ Tracking Setpoint
FCO102	Single Loop Control w/ Fixed Setpoint
FCO103	External Set Control w/ Tracking Local Setpoint
FCO104	External Set Control w/ Non-Tracking Local Setpoint
FCO105	Ratio Set Control w/ Operator Setpoint Limits
FCO106	Single Loop Control w/ Operator Setpoint Limits
FCO107	Dual Loop Control
FCO121	Cascade Control
FCO122	Cascade Control w/ Operator Setpoint Limits

*Experience the Simplicity*

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