

ATC 990

Panel Process Controller

1/4 DIN Auto-Tuning Control
and Display of Process or Differential Pressure

1/4 DIN AUTO-TUNING CONTROL
AND DISPLAY OF PROCESS OR
DIFFERENTIAL PRESSURE



Description

The ATC990 with a graphical/text LCD display is a universal input process controller with advanced functionality including Trend views as well as Digital Inputs, USB and data logging options. It provides a cost-effective way to control a single process parameter, such as for a plastics extruder. Designed to improve user efficiency many features are integrated to reduce commissioning time, simplify operation and minimize maintenance downtime. Reliably auto-tune and alarm on strain gauge, DC voltage, temperature or current inputs. The ATC990 can also control differential pressure when an optional secondary strain gauge input is used. Other useful display information includes alarm set points, peak values, error conditions, and engineering unit beacons. The controller provides a quick and easy set-up which includes a step by step configuration wizard which starts automatically on the first start up. An optional 24Vdc output supply is also available.

Features

- Auto-tuning control in a discrete 1/4 DN package
- Graphical/text LCD Display with color change LED backlight on alarm (red/green)
- Graphical trend view of process alarms & events as standard
- Easy to use Setup Wizard
- Single loop control
- USB port option logs process values, set points and alarms to .csv file for use with spreadsheets
- Modbus RS-485 and Modbus TCP Ethernet supported
- BlueControl configuration and commissioning software option



Performance Characteristics	
Instrument Type:	Digital, panel-mount PID closed loop controller
Display:	160 x 80 Monochromatic Graphical LCD with backlight
Accuracy:	
Thermocouple:	±0.1% of full range, ±1LSD (±1°C for internal CJC if enabled)
DC Linear:	±0.1% of full range, ±1LSD
Sampling Time:	50mS, typical
Input	
Input:	Strain gauge, Thermocouple or linear (Vdc, mA)
Strain Gauge:	350 to 5000Ω, 1.4 to 4mV/V, excitation 10V ±7%
Linear Input:	0 to 5Vdc and 0 to 10Vdc, 0 to 20mA and 4 to 20mA
Input Signal:	-25 to 125% full scale (approximately -10mV to +50mV)
Input Impedance:	<10Ω for linear current input >165kΩ for linear voltage input
Shunt Calibration:	With or without resistor (40 to 100%)
Digital:	4 programmable voltage-free contact closure
Alarm Outputs	
Alarm Type:	SPST 2A max @ 240Vac resistive load Dual relays have shared common
Alarm Number:	3 standard
Alarm Update Time:	100mS, typical
Outputs	
Type (Retransmission):	0-5Vdc and 0-10Vdc, 0-20mA and 4-20mA
Type (Control):	0-5Vdc and 0-10Vdc (2% under/over drive) 0-20mA and 4-20mA
Resolution:	15 3/4 bit
Accuracy:	±0.1% of output span (mA @ <500Ω, V @ >500Ω)
Control Function	
Type:	Adaptive auto-tuning algorithm Serial Communication Interface
Type:	Isolated RS-485
Protocol:	Modbus RTU



Azurr-Technology, s.r.o.

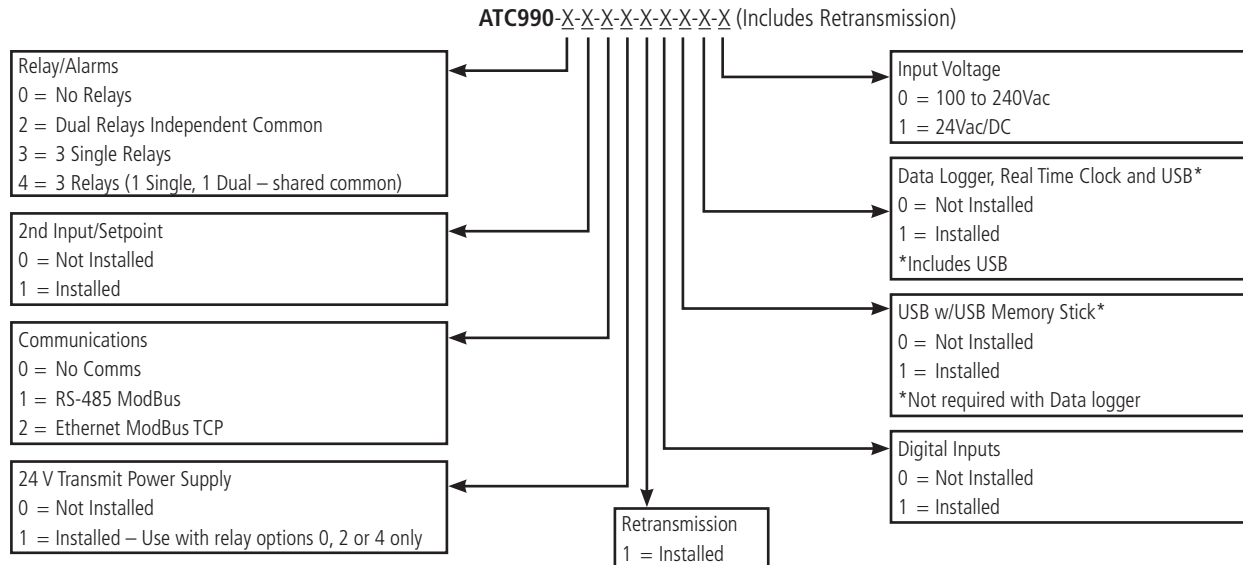
Dolní Bečva 579 Tel.: +420 571 647 228
756 55 Tel.: +420 571 647 310
Česká republika Email: info@azurr-tech.cz
www.azurr-tech.cz



Všechny rozměry jsou uvedeny v palcích (mm), pokud není uvedeno jinak. © 2016.
Společnost Dynisco si vyhrazuje právo provést změny bez předchozího upozornění.
Přístupy k dokumentům jako jsou návody k obsluze a jiné podpůrné dokumenty
naleznete na www.dynisco.com
Rev.:1216

Mechanical & Packaging Characteristics	
Termination:	Screw terminals on rear
Front Panel:	IP65 with gasket (IP65 front USB connector)
Operating Temp:	32 to 122°F (0 to 50°C)
Storage Temp:	-4 to 158°F (-20 to 70°C)
Humidity:	85% relative humidity, non-condensing
Weight:	1.43 lbs. (650g)
Approvals & Certifications	
CE Mark:	Self-certified to applicable standards
Agency Approvals:	UL
Power Supply (Mains)	
Input Power	
Mains Version:	100 to 240Vac, 50/60Hz switching
Low Voltage Version:	20 to 48 Vac 50/60Hz 25VA or 22 to 65Vdc 12W
Power Consumption:	15VA, max
Transmitter Power Supply:	24Vdc into 400Ω min, 60mA drive for 2-or 4-wire mA transmitters

Ordering Guide



Azur-Technology, s.r.o.

Dolní Bečva 579 Tel.: +420 571 647 228
756 55 Tel.: +420 571 647 310
Česká republika Email: info@azurr-tech.cz
www.azurr-tech.cz



Všechny rozměry jsou uvedeny v palcích (mm), pokud není uvedeno jinak. © 2016.
Společnost Dynisco si vyhrazuje právo provádět změny bez předchozího upozornění.
Přístupy k dokumentům jako jsou návody k obsluze a jiné podpůrné dokumenty
naleznete na www.dynisco.com
Rev.:1216

