


























ETR SELECTION GUIDE	1/16 DIN			
				
Model Number	ETR-900	ETR-901	ETR-902	ETR-905
Description	Indicator	Controller	Controller	Controller
Indication/Display	Digital	LED	LED	3-digits
Operator Interface		dial	dial	pushwheel
Inputs:				
Thermocouple types	J or K	J or K	J or K	J or K
RTD	Y	N	N	N
Current, Voltage	N	N	N	N
Update Rate	analog	analog	analog	analog
Current Transformer	N	N	N	N
Digital	N	N	N	N
Outputs:				
Relay	N	Y	Y	Y
SSR Drive	N	Y	Y	Y
Triac	N	Y	Y	Y
4-20mA	N	Y	Y	Y
Voltage	N	N	N	N
Total Outputs	0	1	1	1
Number of Control	0	1	1	1
Number of Alarm / Event	0	0	0	0
Control Modes:				
Limit	N	N	N	N
On/OFF	N	Y	Y	Y
Prop. (w/Manual Reset)	N	N	N	Y
PID	N	N	N	N
AutoTune PID	N	N	N	N
Bumpless Transfer	N	N	N	N
Heat, Cool or		heat	heat	heat
Heat & Cool				
Output Power Limiter	N	N	N	N
Special Features:				
Ramp to Set Point	N	N	N	N
Differential Control	N	N	N	N
Loop Break	N	N	N	N
Heater Break	N	N	N	N
Remote Setpoint	N	N	N	N
Analog Retrans. Output	N	N	N	N
Auxillary DC Pwr Supply	N	N	N	N
Communications	N	N	N	N
RS-232, RS-422, RS-485				
Protocols				
Operating Temperature	-10 to 50°C	-10 to 52°C	-10 to 52°C	-10 to 49°C
Instrument Power	90-264 VAC	120 or 240V	120 or 240V	90-264 VAC
Low Voltage	Y	Y	Y	Y
Unit Depth (behind panel)	3-3/8"	3-3/8"	3-3/8"	3-3/8"
NEMA Rating	2	2	2	2
Catalog Page	242	224	224	224


ETR SELECTION GUIDE	1/16 DIN				
					
Model Number	ETR-9000	ETR-9040	ETR-9090	ETR-9200	ETR-9300
Description	Controller	FM Limit	Controller	Controller	Controller
Indication/Display	Single 4-Digit	Single 4 Digit	Dual 4-Digit	Dual 4-Digit	Dual 4-Digit
Operator Interface	tactile PB	tactile PB	tactile PB	push buttons	push buttons
Inputs:					
Thermocouple types	9	9	8	8	9
RTD	Y	Y	Y	Y	Y
Current, Voltage	10 VDC max.	10 VDC max.	Y	10 VDC max.	10 VDC max.
Update Rate	5/sec.	5/sec.	3/sec.	5/sec.	5/sec.
Current Transformer	N	N	N	N	Y
Digital	N	Y	N	N	Y
Outputs:					
Relay	Y	Y	Y	Y	Y
SSR Drive	Y	Y	Y	Y	Y
Triac	Y	Y	Y	Y	Y
4-20mA	Y	N	Y	Y	Y
Voltage	Y	N	Y	Y	Y
Total Outputs	2	2	2	3	4
Number of Control	2	1	2	2	2
Number of Alarm / Event	1	2	1	2	2
Control Modes:					
Limit	N	Y	N	N	N
On/OFF	Y	Y	Y	Y	Y
Prop. (w/Manual Reset)	Y	N	Y		Y
PID	Y	N	Y	Y	Y
AutoTune PID	Y	N	Y	Y	Y
Bumpless Transfer	Y	N	N		Y
Heat, Cool or	heat, cool	limit	heat, alarm	heat, cool	heat, cool
Heat & Cool	heat & cool			heat & cool	heat & cool
Output Power Limiter	Y	N	N	Y	Y
Special Features:					
Ramp to Set Point	Y	N	N	Y	Y
Differential Control	N	N	N	N	Y
Loop Break	N	Y	N	N	Y
Heater Break	N	Y	N	N	Y
Remote Setpoint	N	N	N	N	Y
Analog Retrans. Output	N	N	N	Y	Y
Auxillary DC Pwr Supply	Y	Y	N	N	Y
Communications	Y	Y	N	Y	Y
RS-232, RS-422, RS-485	Y	Y			Y
Protocols	Modbus	Modbus			Modbus
Operating Temperature	-10 to 50°C	-10 to 50°C	65°C (SSR)	-10 to 50°C	-10 to 50°C
Instrument Power	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC
Low Voltage	Y	Y	Y	Y	Y
Unit Depth (behind panel)	3-3/8"	3-3/8"	3-3/8"	3"	3"
NEMA Rating	2	2	2	4X	4X
Catalog Page	218	236	192	200	208

ETR SELECTION GUIDE	1/32 DIN			
				
Model Number	ETR-3000	ETR-3100	ETR-3200	ETR-3400
Description	Controller	Indicator	Controller	Controller
Indication/Display	Single 4-Digit	Single 4-Digit	Single 4-Digit	Single 4-Digit
Operator Interface	push buttons	push buttons	push buttons	push buttons
Inputs:				
Thermocouple types	9	8	9	9
RTD	Y	Y	Y	Y
Current, Voltage	10 VDC max.	10 VDC max.	10 VDC max.	10 VDC max.
Update Rate	5/sec	5/sec	5/sec	5/sec
Current Transformer	N	N	N	Y
Digital	N	N	N	Y
Outputs:				
Relay	Y	N	Y	Y
SSR Drive	Y	N	Y	Y
Triac	Y	N	Y	Y
4-20mA	Y	N	Y	Y
Voltage	Y	N	Y	Y
Total Outputs	3	0	3	3
Number of Control	2	0	2	2
Number of Alarm / Event	1	0	1	1
Control Modes:				
Limit	N	N	N	N
On/OFF	Y	N	Y	Y
Prop. (w/Manual Reset)	Y	N	Y	Y
PID	Y	N	Y	Y
AutoTune PID	Y	N	Y	Y
Bumpless Transfer	Y	N	Y	Y
Heat, Cool or	heat, cool		heat, cool	heat, cool
Heat & Cool	heat & cool		heat & cool	heat & cool
Output Power Limiter	Y	N	Y	Y
Special Features:				
Ramp to Set Point	Y	N	Y	Y
Differential Control	N	N	N	Y
Loop Break	N	N	N	Y
Heater Break	N	N	N	Y
Remote Setpoint	N	N	N	Y
Analog Retrans. Output	N	N	N	Y
Auxillary DC Pwr Supply	Y	N	N	Y
Communications	Y	N	N	Y
RS-232, RS-422, RS-485	Y		N	Y
Protocols	ModBus			ModBus
Operating Temperature	-10 to 50°C	-10 to 52°C	-10 to 52C	-10 to 50°C
Instrument Power	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC
Low Voltage	Y	Y	Y	Y
Unit Depth (behind panel)	3-7/8"	3-7/8"	3-7/8"	3-7/8"
NEMA Rating	4X	4X	4X	4X
Catalog Page	220	242	202	210

ETR SELECTION GUIDE	1/4 DIN				
					
Model Number	ETR-401	ETR-402	ETR-404	ETR-405	ETR-406
Description	Controller	Controller	Controller	Controller	Controller
Indication/Display	LED	Deviation	Single 4-digit	Single 4-digit	Single 4-digit
Operator Interface	dial	dial	dial	pushwheel	pushwheel
Inputs:					
Thermocouple types	J or K	J or K	J or K	J or K	J or K
RTD	N	N	N	N	N
Current, Voltage	N	N	N	N	N
Update Rate	analog	analog	analog	analog	analog
Current Transformer	N	N	N	N	N
Digital	N	N	N	N	N
Outputs:					
Relay	Y	Y	Y	Y	Y
SSR Drive	Y	Y	Y	Y	Y
Triac	Y	Y	Y	Y	Y
4-20mA	Y	Y	Y	Y	Y
Voltage	Y	Y	Y	Y	Y
Total Outputs	1	1	2	2	2
Number of Control	1	1	1	1	1
Number of Alarm / Event	0	0	1	1	1
Control Modes:					
Limit	N	N	N	N	N
On/OFF	Y	Y	Y	Y	Y
Prop. (w/Manual Reset)	N	Y	Y	Y	Y
PID	N	N	N	N	N
AutoTune PID	N	N	N	N	N
Bumpless Transfer	N	N	N	N	N
Heat, Cool or	heat, cool	heat, cool	heat, cool	heat, cool	heat, cool
Heat & Cool					
Output Power Limiter	N	N	N	N	N
Special Features:					
Ramp to Set Point	N	N	N	N	N
Differential Control	N	N	N	N	N
Loop Break	N	N	N	N	N
Heater Break	N	N	N	N	N
Remote Setpoint	N	N	N	N	N
Analog Retrans. Output	N	N	N	N	N
Auxillary DC Pwr Supply	N	N	N	N	N
Communications					
RS-232, RS-422, RS-485	N	N	N	N	N
Protocols					
Operating Temperature	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C
Instrument Power	120 or 240V	120 or 240V	90-264 VAC	120 or 240V	90-264 VAC
Low Voltage	Y	Y	Y	Y	Y
Unit Depth (behind panel)	2"	2"	2"	2"	2"
NEMA Rating	2	2	2	2	2
Catalog Page	230	230	228	232	228

ETR SELECTION GUIDE	1/4 DIN				
					
Model Number	ETR-4120	ETR-4130	ETR-4220	ETR-4230	ETR-4300
Description	Controller	Controller	Controller	Controller	Controller
Indication/Display	Dual 4-Digit	Dual 4-Digit	Dual 4-Digit	Dual 4-Digit	Dual 4-Digit
Operator Interface	tactile PB	tactile PB	tactile PB	tactile PB	tactile PB
Inputs:					
Thermocouple types	8	8	8	8	9
RTD	Y	Y	Y	Y	Y
Current, Voltage	10 VDC max.	10 VDC max.	10 VDC max.	10 VDC max.	10 VDC max.
Update Rate	3/sec.	3/sec.	5/sec.	5/sec.	5/sec.
Current Transformer	N	N	N	N	Y
Digital	N	N	N	N	Y
Outputs:					
Relay	Y	Y	Y	Y	Y
SSR Drive	Y	Y	Y	Y	Y
Triac	Y	Y	Y	Y	Y
4-20mA	Y	Y	Y	Y	Y
Voltage	Y	Y	Y	Y	Y
Total Outputs	3	4	3	4	4
Number of Control	1	2	1	2	2
Number of Alarm / Event	2	2	2	2	2
Control Modes:					
Limit	N	N	N	N	N
On/OFF	Y	Y	Y	Y	Y
Prop. (w/Manual Reset)	Y	Y	Y	Y	Y
PID	Y	Y	Y	Y	Y
AutoTune PID	Y	Y	Y	Y	Y
Bumpless Transfer	N	N	N	N	Y
Heat, Cool or	heat, cool	heat, cool	heat, cool	heat, cool	heat, cool
Heat & Cool		heat & cool		heat & cool	heat & cool
Output Power Limiter	N	N	Y	Y	Y
Special Features:					
Ramp to Set Point	Y	Y	Y	Y	Y
Differential Control	N	N	N	N	Y
Loop Break	N	N	N	N	Y
Heater Break	N	N	N	N	Y
Remote Setpoint	N	N	N	N	Y
Analog Retrans. Output	N	N	N	N	Y
Auxillary DC Pwr Supply	N	N	Y	Y	Y
Communications	N	N	N	N	Y
RS-232, RS-422, RS-485					Y
Protocols					Modbus
Operating Temperature	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C
Instrument Power	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC
Low Voltage	Y	Y	Y	Y	Y
Unit Depth (behind panel)	2"	2"	2"	2"	2"
NEMA Rating	2	2	2	2	2
Catalog Page	194	194	204	204	212

ETR SELECTION GUIDE	1/8 DIN			
				
Model Number	ETR-805	ETR-8120	ETR-8130	ETR-8300
Description	Controller	Controller	Controller	Controller
Indication/Display	Single 4-Digit	Dual 4-Digit	Dual 4-Digit	Dual 4-Digit
Operator Interface	pushwheel	tactile PB	tactile PB	tactile PB
Inputs:				
Thermocouple types	J or K	8	8	9
RTD	Y	Y	Y	Y
Current, Voltage	N	Y	Y	Y
Update Rate	analog	3/sec	3/sec	5/sec
Current Transformer	N	N	N	Y
Digital	N	N	N	Y
Outputs:				
Relay	Y	Y	Y	Y
SSR Drive	Y	Y	Y	Y
Triac	Y	Y	Y	Y
4-20mA	Y	Y	Y	Y
Voltage	N	Y	Y	Y
Total Outputs	2	3	4	4
Number of Control	1	1	2	2
Number of Alarm / Event	1	2	2	2
Control Modes:				
Limit	N	N	N	N
On/OFF	Y	Y	Y	Y
Prop. (w/Manual Reset)	Y	Y	Y	Y
PID	N	Y	Y	Y
AutoTune PID	N	Y	Y	Y
Bumpless Transfer	N	N	N	Y
Heat, Cool or	heat, cool	heat, cool	heat, cool	heat, cool
Heat & Cool			heat & cool	heat & cool
Output Power Limiter	N	N	N	Y
Special Features:				
Ramp to Set Point	N	Y	Y	Y
Differential Control	N	N	N	Y
Loop Break	N	N	N	Y
Heater Break	N	N	N	Y
Remote Setpoint	N	N	N	Y
Analog Retrans. Output	N	N	N	Y
Auxillary DC Pwr Supply	N	N	N	Y
Communications	N	N	N	Y
RS-232, RS-422, RS-485				Y
Protocols				Modbus
Operating Temperature	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C
Instrument Power	90-264 VAC	90-264 VAC	90-264 VAC	90-264 VAC
Low Voltage	Y	Y	Y	Y
Unit Depth (behind panel)	2-1/2"	2-1/2"	2-1/2"	2-1/2"
NEMA Rating	2	2	2	2
Catalog Page	226	196	196	214

ETR SELECTION GUIDE	72 MM		DIN RAIL/PANEL MOUNT	
				
Model Number	ETR-702	ETR-705	ETR-3	ETR-4
Description	Controller	Controller	FM Limit	Controller/ Limit
Indication/Display	Deviation	Single 3-digit	none	LED
Operator Interface	dial	pushwheel	dial	dial
Inputs:				
Thermocouple types	J or K	J or K	J or K	J or K
RTD	N	N	Y	N
Current, Voltage	N	N	N	N
Update Rate	analog	analog	analog	analog
Current Transformer	N	N	N	N
Digital	N	N	N	N
Outputs:				
Relay	Y	Y	Y	Y - 20 amps
SSR Drive	Y	Y	N	N
Triac	Y	Y	N	N
4-20mA	Y	Y	N	N
Voltage	N	N	N	N
Total Outputs	1	1	1	1
Number of Control	1	1	1-latching	1
Number of Alarm / Event	0	0	0	0
Control Modes:				
Limit	N	N	Y	Y
On/OFF	Y	Y	Y	Y
Prop. (w/Manual Reset)	Y	Y	N	Y
PID	N	N	N	N
AutoTune PID	N	N	N	N
Bumpless Transfer	N	N	N	N
Heat, Cool or	heat	heat	limit	limit, heat
Heat & Cool				
Output Power Limiter	N	N	N	N
Special Features:				
Ramp to Set Point	N	N	N	N
Differential Control	N	N	N	N
Loop Break	N	N	N	N
Heater Break	N	N	N	N
Remote Setpoint	N	N	N	N
Analog Retrans. Output	N	N	N	N
Auxillary DC Pwr Supply	N	N	N	N
Communications	N	N	N	N
RS-232, RS-422, RS-485				
Protocols				
Operating Temperature	-10 to 50°C	-10 to 50°C	-10 to 50°C	-10 to 50°C
Instrument Power	90-264 VAC	90-264 VAC	120/240V	120 or 240V
Low Voltage	Y	Y	Y	Y
Unit Depth (behind panel)	2"	2"		
NEMA Rating	2	2		
Catalog Page	234	234	238	239