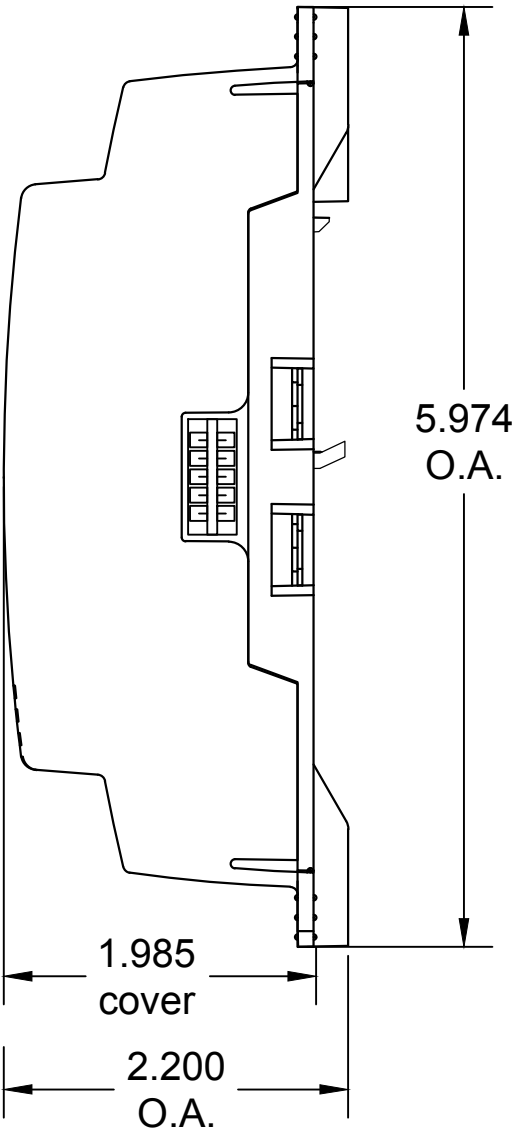
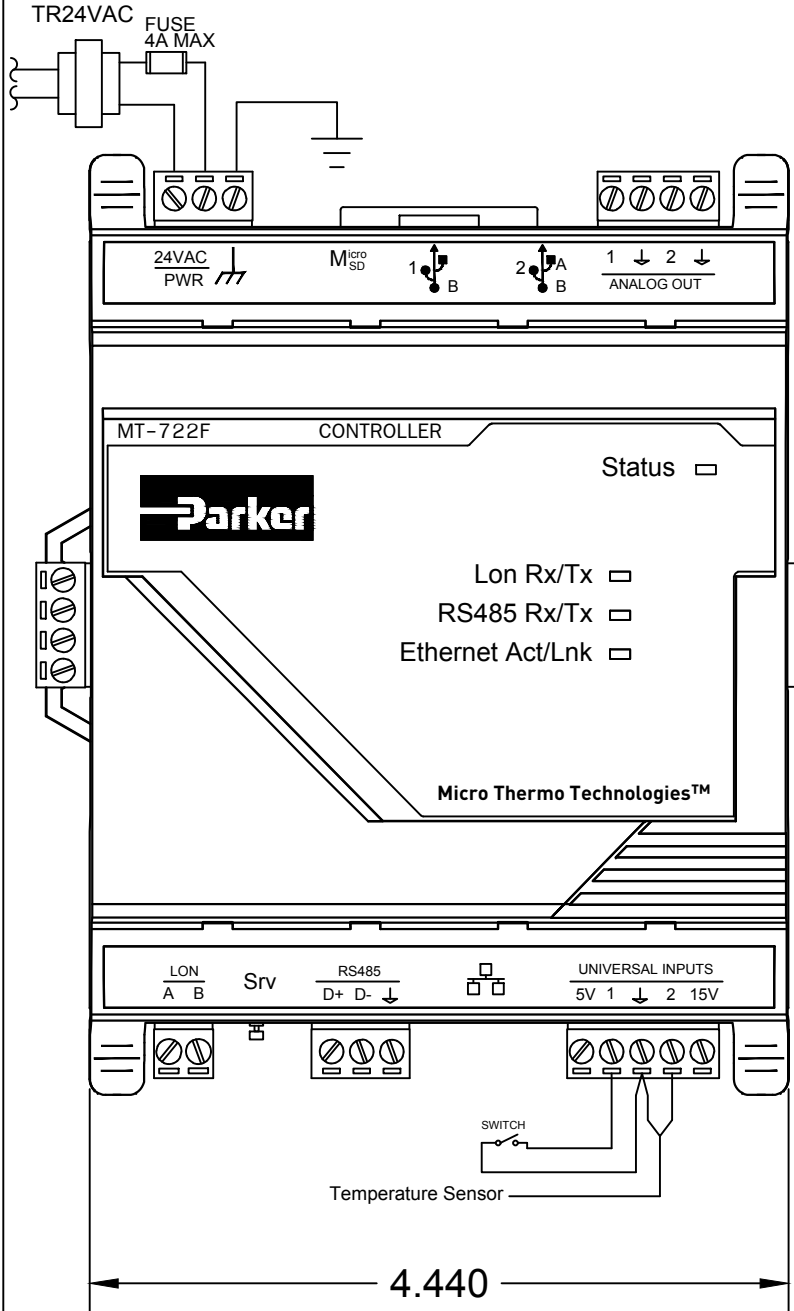




SPECIFICATIONS

DESCRIPTION	MT-700 Series Main Controller *Required for all controller trains	
UNIVERSIAL INPUTS (UI)	2 UI (Analog or Digital: 0-5V, 0-10V, 4-20mA, Thermistor, PT1000, Switch (dry contact)	
RELAY OUTPUT (RO)	None	
ANALOG OUTPUT (AO)	2 AO: 0-10V, 0-20mA	
VALVE OUTPUT (VO)	None	
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)	
MOUNTING	Wall Mount or DIN Rail	
POWER REQUIREMENT	24Vac ±10% 50/60Hz	
VOLT-AMP LOAD	Min: 7.0 VA Max: 10.6 VA* *Must add VA from all expansion modules in controller train; max: 100VA per train	
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)	
APPROVAL	UL 508 & UL61010-2, Industrial controllers	

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2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL CONTROLLERS

AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

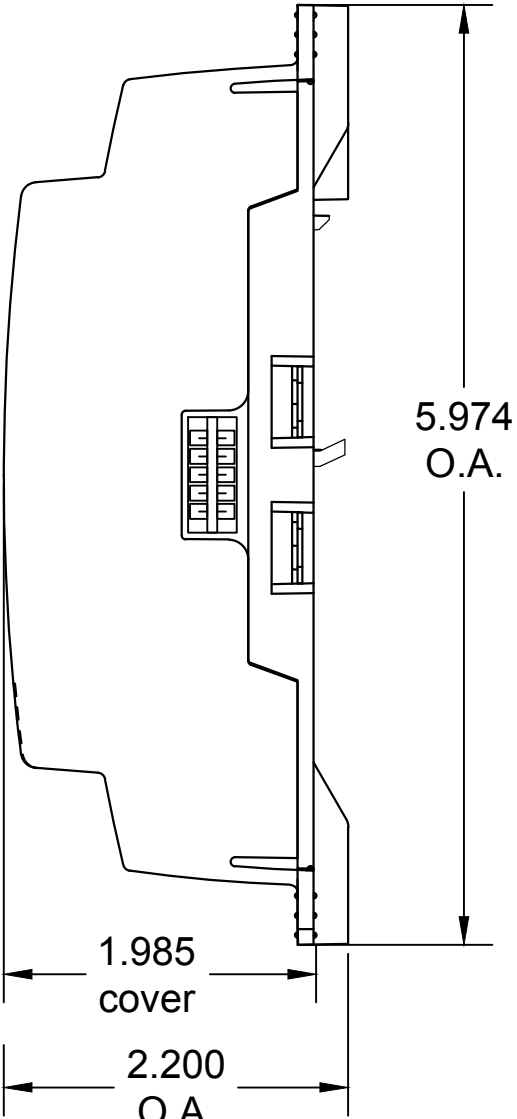
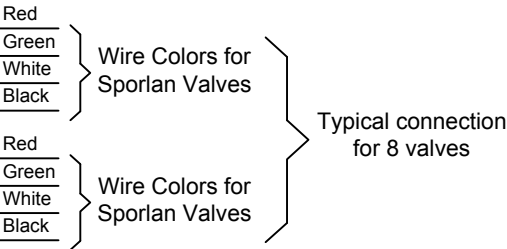
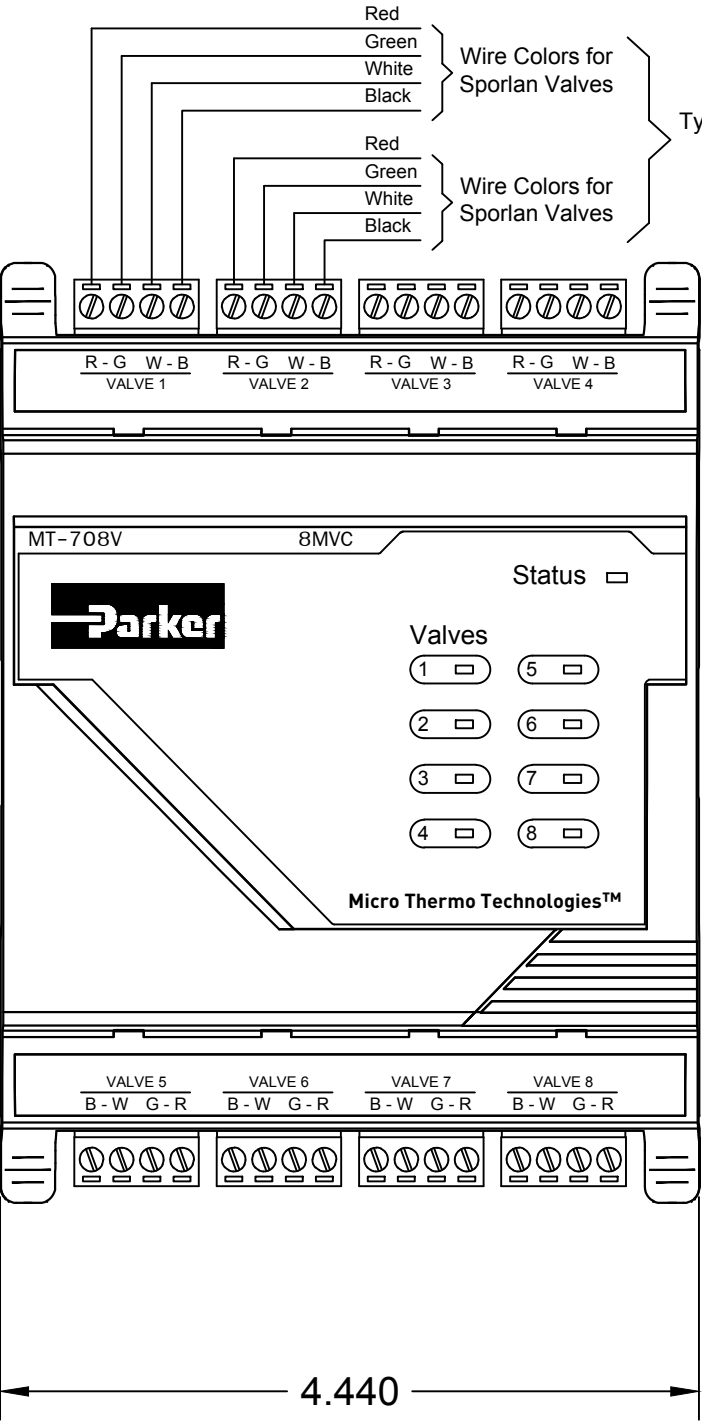
TITLE:

Controller Series 700
With Specification

PART#:

MT-722F

Drawn By :	Designed By :	Approved By :	Revision :
J.B.	J.R. / R.L. / D.P.	L.M.	01
Scale :	Date :	File Name :	
N.T.S	2015-10-29	MT-722F	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 8-Valve Output module for EEPR valve control.	
UNIVERSIAL INPUTS (UI)	None	
RELAY OUTPUT (RO)	None	
ANALOG OUTPUT (AO)	None	
VALVE OUTPUT (VO)	8 Universal modulating outputs for bipolar stepper motors (Supports all Sporlan Bipolar Stepper Valves, and popular valves from other manufacturers)	
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)	
MOUNTING	Wall Mount or DIN Rail	
POWER REQUIREMENT	Power supplied by MT-722x Controller	
VOLT-AMP LOAD	Min: 1.9 VA Max: 12.0 VA for Sporlan Valves; 31.2 VA maximum	
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)	
APPROVAL	UL61010-2, Industrial controllers	

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2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL CONTROLLERS

AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

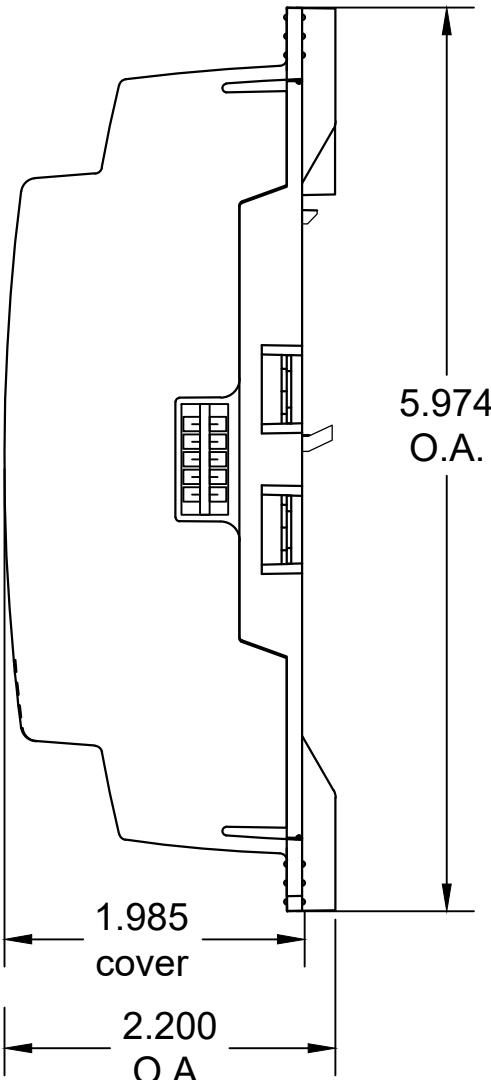
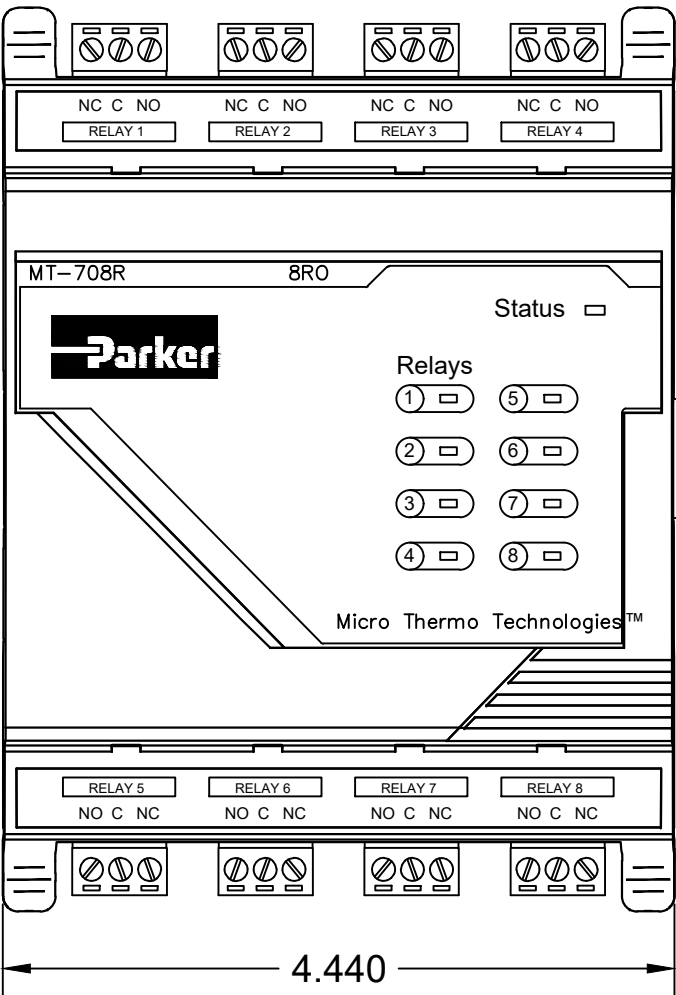
TITLE:

Controller Series 700
With Specification

PART#:

MT-708V

Drawn By :	Designed By :	Approved By :	Revision :
J.B.	J.R. / R.L. / D.P.	L.M.	01
Scale :	Date :	File Name :	
N.T.S	2015-10-29	MT-708V	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 8-Relay Output module	
UNIVERSIAL INPUTS (UI)	None	
RELAY OUTPUT (RO)	8 Relays 1Form C: SPDT 5A / 250V MAX (Not suitable for ECM fan (1)) For R03 series: On-board Fuse protected (2AG / 5A / 125V / Slow Blow) For other series: On-board Fuse protected (2AG / 5A / 250V / Fast Acting)	
ANALOG OUTPUT (AO)	None	
VALVE OUTPUT (VO)	None	
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)	
MOUNTING	Wall Mount with screw #6 or DIN Rail 35mm	
POWER REQUIREMENT	Power supplied by MT-722x Controller	
VOLT-AMP LOAD	Min: 4.7 VA Max: 4.7 VA	
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)	
APPROVAL	UL61010-2, Industrial controllers	

Note 1: External relay must be used to control ECM fan and the relay type must be recommended by the equipment manufacturer.

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2021-12-23	Updated specifications	03
2018-03-23	Added R03 relay Fuse ratings	02
2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL
CONTROLLERS

AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

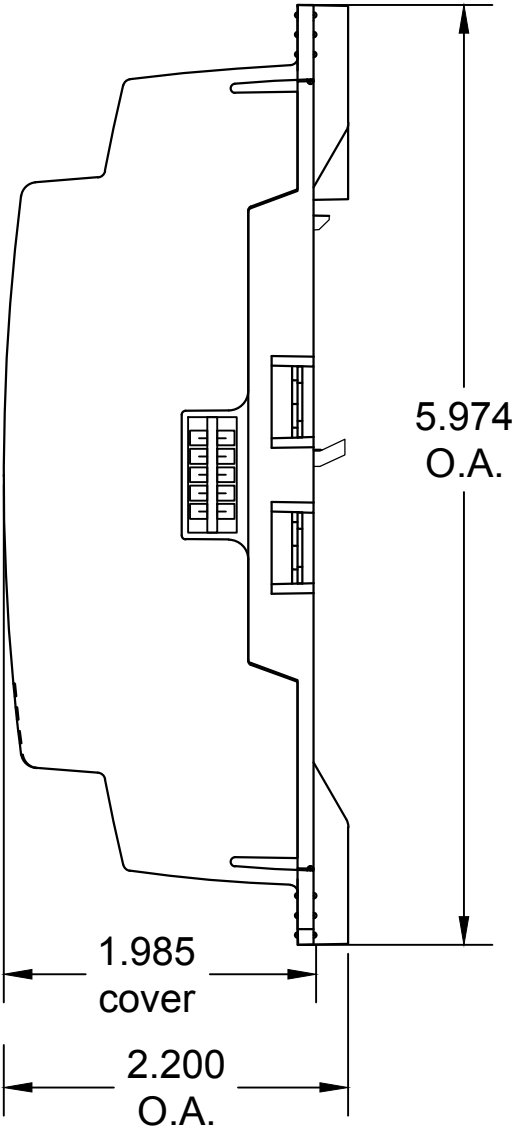
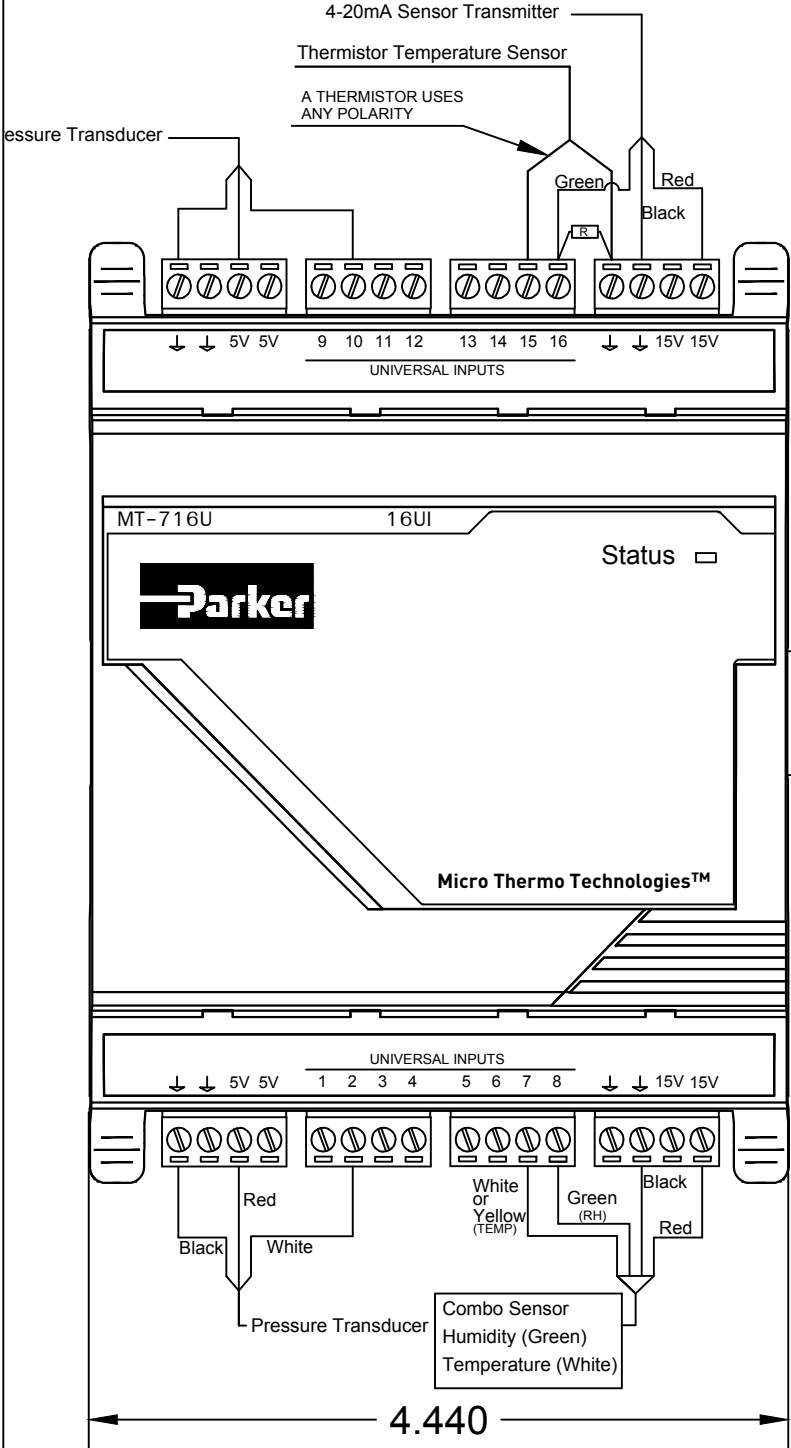
TITLE:

Controller Series 700
With Specification

PART#:

MT-708R

Drawn By : H.R.	Designed By : J.R. / R.L. / D.P.	Approved By : L.M.	Revision : 03
Scale : N.T.S	Date : 2021-12-23	File Name : MT-708R	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 16 Universal Input module	
UNIVERSIAL INPUTS (UI)	16 UI (Analog or Digital): 0-5V, 0-10V, 0-20mA, 4-20mA, thermistor, PT1000, switch (dry contact)	
RELAY OUTPUT (RO)	None	
ANALOG OUTPUT (AO)	None	
VALVE OUTPUT (VO)	None	
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)	
MOUNTING	Wall Mount or DIN Rail	
POWER REQUIREMENT	Power supplied by MT-722x Controller	
VOLT-AMP LOAD	Min: 2.8 VA Max: 8.9 VA	
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)	
APPROVAL	UL 508 & UL61010-2, Industrial controllers	

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2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL CONTROLLERS

AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

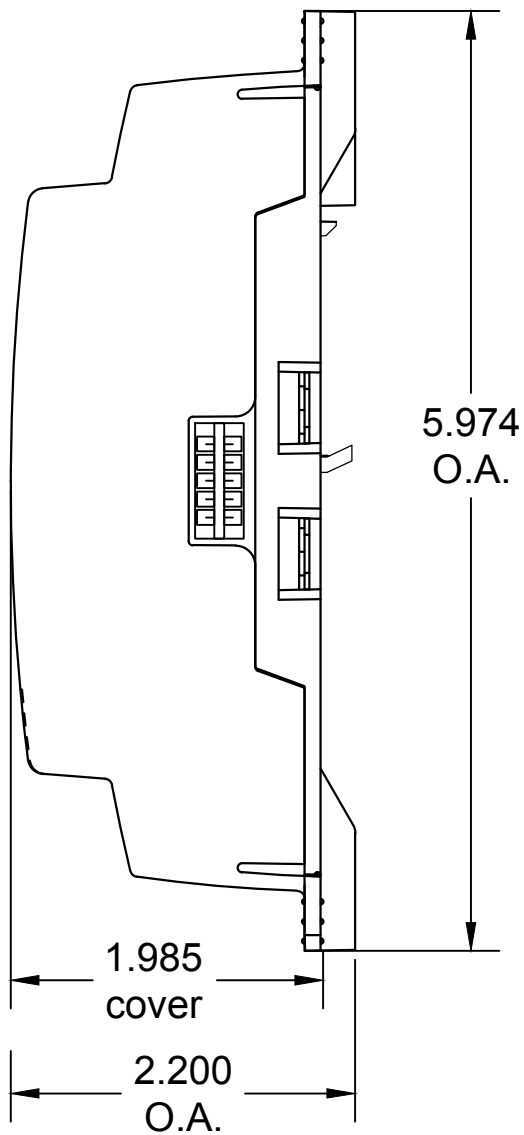
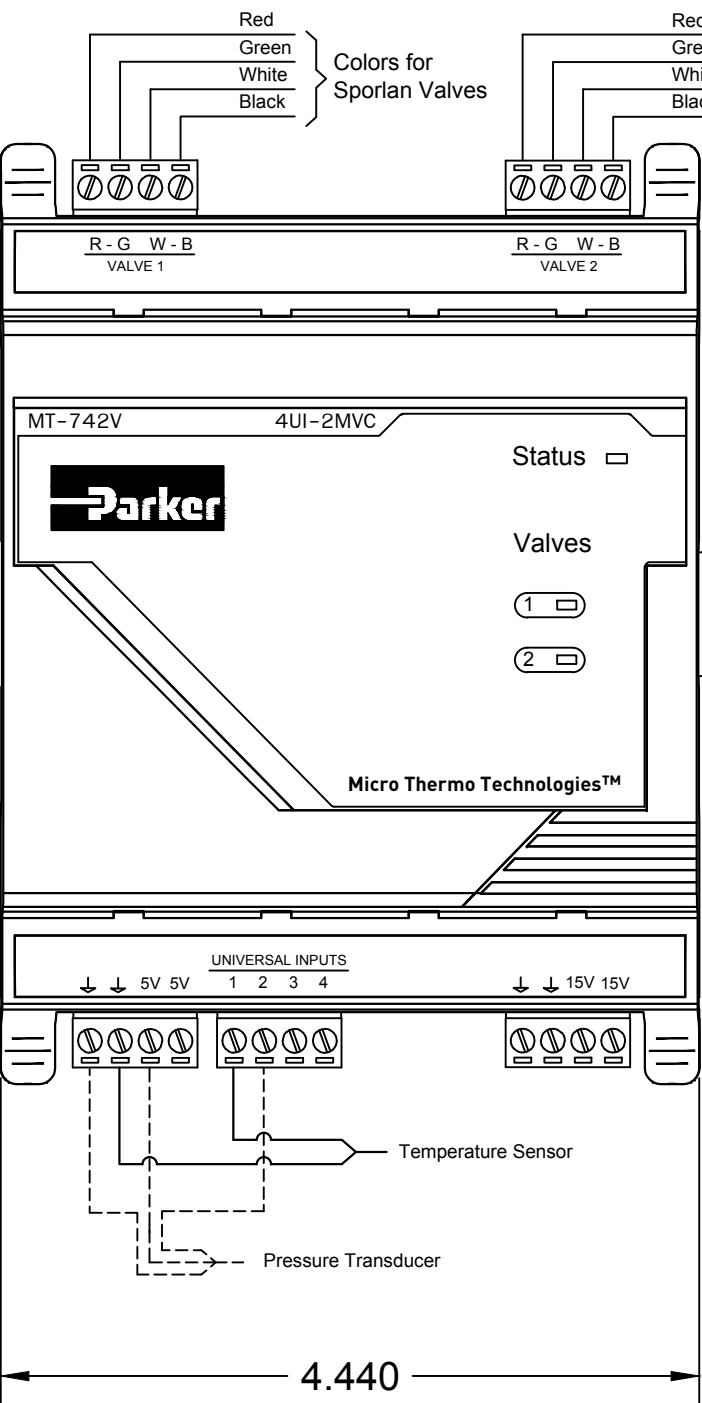
TITLE:

Controller Series 700
With Specification

PART#:

MT-716U

Drawn By :	Designed By :	Approved By :	Revision :
J.B.	J.R. / R.L. / D.P.	L.M.	01
Scale :	Date :	File Name :	
N.T.S	2015-10-29	MT-716U	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 4 Universal Input / 2-Valve Output module for EEV & EEPR control.	
UNIVERSAL INPUTS (UI)	4 UI (Analog or Digital): 0-5V, 0-10V, 0-20mA, 4-20mA, thermistor, PT1000, switch (dry contact)	
RELAY OUTPUT (RO)	None	
ANALOG OUTPUT (AO)	None	
VALVE OUTPUT (VO)	2 Universal modulating outputs for bipolar stepper motors (Supports all Sporlan Bipolar Stepper Valves, and popular valves from other manufacturers)	
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)	
MOUNTING	Wall Mount or DIN Rail	
POWER REQUIREMENT	Power supplied by MT-722x Controller	
VOLT-AMP LOAD	Min: 2.4 VA Max: 19.9 VA for Sporlan Valves; 34.5 VA maximum	
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)	
APPROVAL	UL 508 & UL61010-2, Industrial controllers	

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2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL
CONTROLLERS

AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450) 668-2695

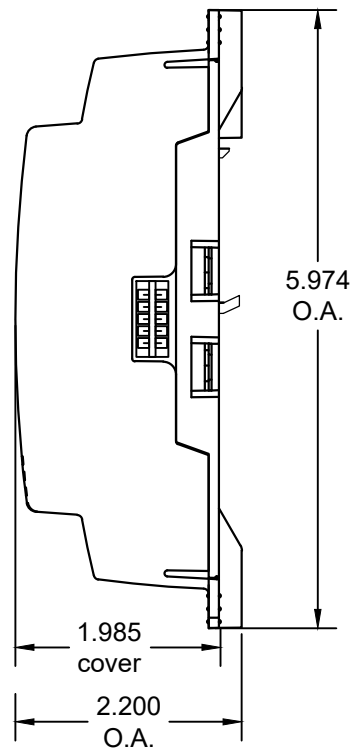
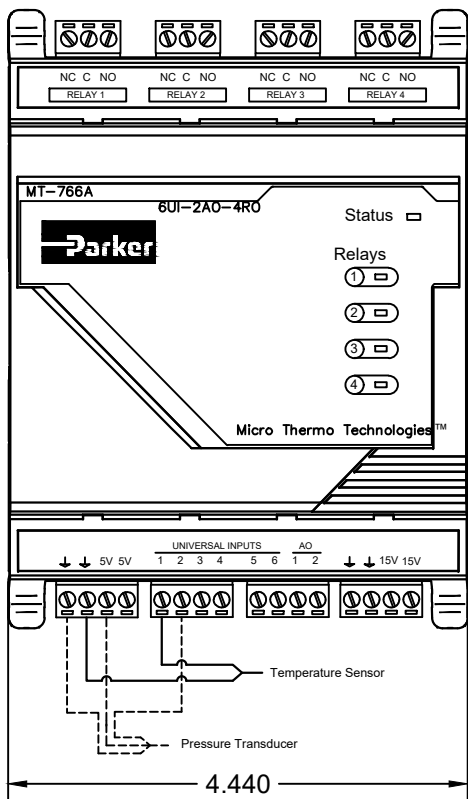
TITLE:

Controller Series 700
With Specification

PART#:

MT-742V

Drawn By :	Designed By :	Approved By :	Revision :
J.B.	J.R. / R.L. / D.P.	L.M.	01
Scale :	Date :	File Name :	
N.T.S	2015-10-29	MT-742V	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 6 Universal Input / 4-Relay Output / 2-Analog Output module.
UNIVERSAL INPUTS (UI)	6 UI (Analog or Digital): 0-5V, 0-10V, 0-20mA, 4-20mA, thermistor, PT1000, switch (dry contact)
RELAY OUTPUT (RO)	4 Relays 1Form C: SPDT 5A / 250V MAX (Not suitable for ECM fan (1)) On-board Fuse protected (2AG / 5A / 250V / Fast acting)
ANALOG OUTPUT (AO)	2 AO: 0-10V, 0-20mA
VALVE OUTPUT (VO)	None
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)
MOUNTING	Wall Mount with screw #6 or DIN Rail 35mm
POWER REQUIREMENT	Power supplied by MT-722x Controller
VOLT-AMP LOAD	Min: 5.6 VA Max: 10.3 VA
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)
APPROVAL	UL61010-2, Industrial controllers

Note 1: External relay must be used to control ECM fan and the relay type must be recommended by the equipment manufacturer.

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2021-12-23	Updated specifications	02
2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :
INDUSTRIAL CONTROLLERS

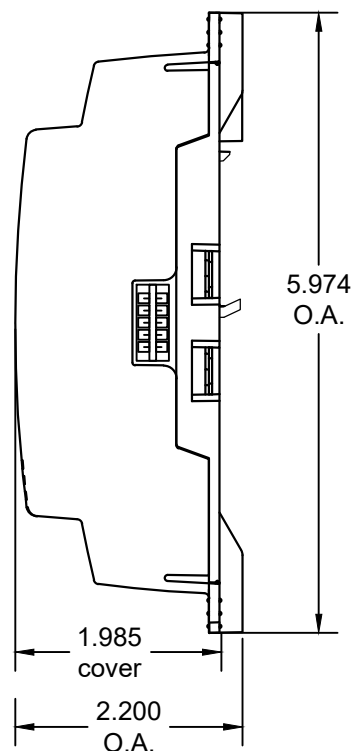
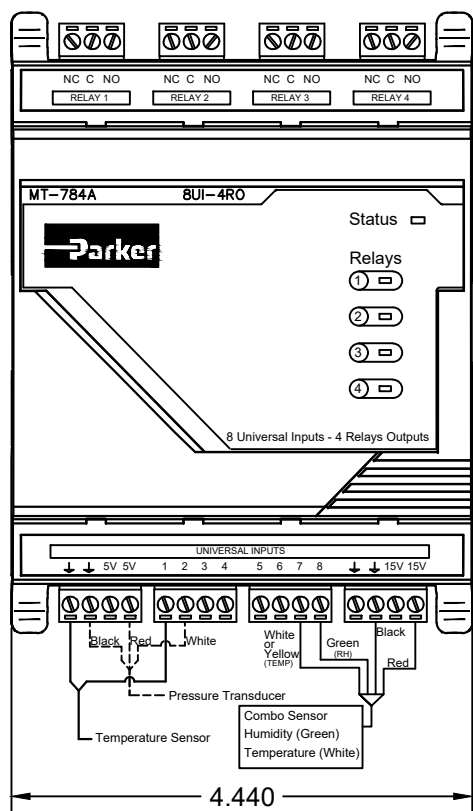
AUTOMATISATION / CONTROL :

Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450) 668-2695

TITLE:
Controller Series 700
With Specification

PART#:
MT-766A

Drawn By : H.R.	Designed By : J.R. / R.L. / D.P.	Approved By : L.M.	Revision : 02
Scale : N.T.S.	Date : 2021-12-23	File Name : MT-766A	



SPECIFICATIONS

DESCRIPTION	MT-700 Series Expansion Module; 8 Universal Input / 4-Relay Output module.
UNIVERSAL INPUTS (UI)	8 UI (Analog or Digital): 0-5V, 0-10V, 0-20mA, 4-20mA, thermistor, PT1000, switch (dry contact)
RELAY OUTPUT (RO)	4 Relays 1Form C: SPDT 5A / 250V MAX (Not suitable for ECM fan (1)) On-board Fuse protected (2AG / 5A / 250V / Fast acting)
ANALOG OUTPUT (AO)	None
VALVE OUTPUT (VO)	None
DIMENSIONS	4.72" X 5.97" X 2.20" (120mm X 152mm X 54mm) (LxWxD)
MOUNTING	Wall Mount with screw #6 or DIN Rail 35mm
POWER REQUIREMENT	Power supplied by MT-722x Controller
VOLT-AMP LOAD	Min: 4.7 VA Max: 9.3 VA
ENVIRONMENTAL	Operating : -13°F to 140°F (-25°C to 60°C), 0-90% RH (non-condensing) Storage : -13°F to 158°F (-25°C to 70°C), 0-90% RH (non-condensing)
APPROVAL	UL 508 & UL61010-2, Industrial controllers



Note 1: External relay must be used to control ECM fan and the relay type must be recommended by the equipment manufacturer.

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2021-12-23	Updated specifications	02
2016-11-08	Updated drawing & specifications	01
DATE	DESCRIPTION	REV.

SYSTEM :

INDUSTRIAL
CONTROLLERS

AUTOMATISATION / CONTROL :



Micro Thermo Technologies™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

TITLE:

Controller Series 700
With Specification

PART#:

MT-784A

Drawn By :	Designed By :	Approved By :	Revision :
H.R.	J.R. / R.L. / D.P.	L.M.	02
Scale :	Date :	File Name :	
N.T.S	2021-12-23	MT-784A	