Intellitec
131 Eisenhower Lane N., Lombard, IL 60148
630 268 0010   800 251 2408
www.intellitec.com
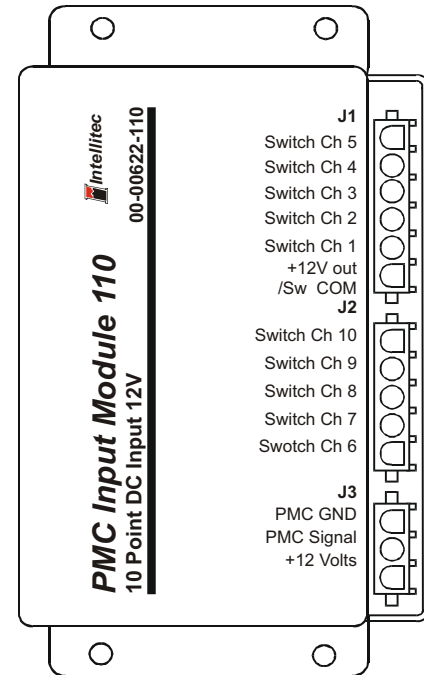
10 Inputs High-side or Low-side
00-00622-100/110 PMC 10 Channel Input Module

PMC Input Modules 100 and 110 are members of Intellitec's Programmable Multiplex Control family. They work in combination with the PMC CPU and other standard, semi-custom or custom I/O modules.

There are ten input connections for rocker, limit, or sensor switches.   Each individual input can be configured as either a switch to ground, or a switch to battery. All input information is directly communicated to the CPU via the PMC communications link.   The CPU utilizes this information to control other PMC output modules.   All of the output harnesses are connected with AMP Mate-N-Lok connectors to reduce installation time and errors.

The approximate module dimensions are 6.375" X 3.750" X 1.875" (16.2mm X 9.5mm X 4.8mm).   The module should be installed in a protected environment inside of the vehicle.

To reduce wiring and if your panel switches are grouped together, you may consider using Intellitec's standard switch adapters, custom adapters or custom switch panels.   Several standard switch adapters are available.

PMC Input Module 110
10 Point DC Input 12V
00-00622-110

J1
Switch Ch 5
Switch Ch 4
Switch Ch 3
Switch Ch 2
Switch Ch 1
+12V out
/Sw COM
J2
Switch Ch 10
Switch Ch 9
Switch Ch 8
Switch Ch 7
Swotch Ch 6
J3
PMC GND
PMC Signal
+12 Volts

Pat. No. 4,907,222 & 6,011,997

Rocker switches can be plugged directly into these adapters which plug into the PMC Multiplex bus. This eliminates the wiring between standard rocker switches and the 100/110 PMC I/O module.
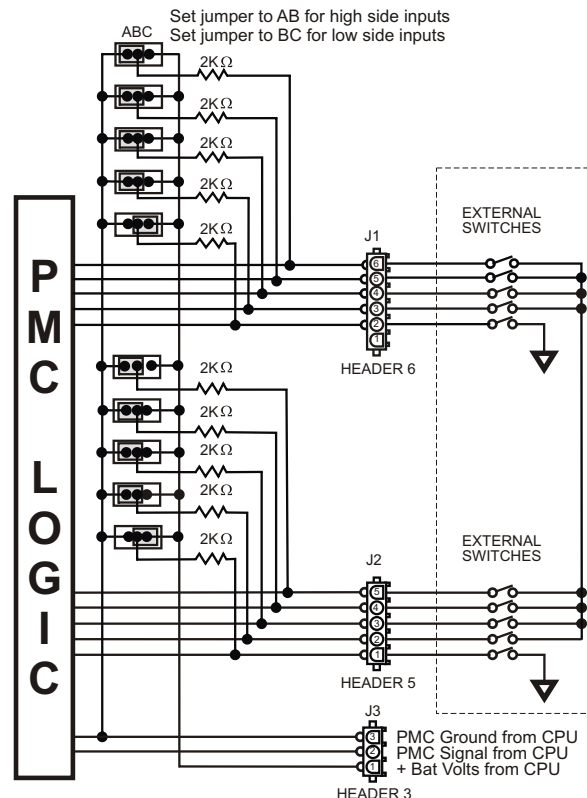
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10 Inputs High-side or Low-side
00-00622-100/110 PMC 10 Channel Input Module

SPECIFICATIONS

General Connections

			00-00622-110	00-00622-100
Nominal Vehicle Voltage			12V	24V
J1-1	Fuse 1, Power for positive switched inputs		3 Amps Max.	3 Amps Max
J3-1	External Power from CPU		3 Amps Max.	3 Amps Max
J3-2	Multiplex Signal		18 awg Min.	18 awg Min.
J3-3	Multiplex Ground		16 awg Min.	16 awg Min.

CHANNEL DESIGNATIONS

Channel	Connection	Type	Name	Rating
1	J1-2	Input, Positive or Negative	Switch 1	2K Input Resistance
2	J1-3	Input, Positive or Negative	Switch 2	2K Input Resistance
3	J1-4	Input, Positive or Negative	Switch 3	2K Input Resistance
4	J1-5	Input, Positive or Negative	Switch 4	2K Input Resistance
5	J1-6	Input, Positive or Negative	Switch 5	2K Input Resistance
6	J2-1	Input, Positive or Negative	Switch 6	2K Input Resistance
7	J2-2	Input, Positive or Negative	Switch 7	2K Input Resistance
8	J2-3	Input, Positive or Negative	Switch 8	2K Input Resistance
9	J2-4	Input, Positive or Negative	Switch 9	2K Input Resistance
10	J2-5	Input, Positive or Negative	Switch 10	2K Input Resistance

MATING CONNECTIONS

Designator	Function	Connector	Mating Part #	Contact, Typical	
				for 14-18 AWG	for 10-12 AWG
J1	Inputs	6 Pin Amp Mate-N-Lok	640585-1	350919-3	640310-3
J2	Inputs	5 Pin Amp Mate-N-Lok	1-480763-0	350919-3	640310-3
J3	PMC Com	3 Pin Amp Mate-N-Lok	1-480700-0	350919-3	640310-3

MODULE SETTINGS

Module can be set for 1 of 16 address.
Set four jumpers on jumper block JP2 per table on right.
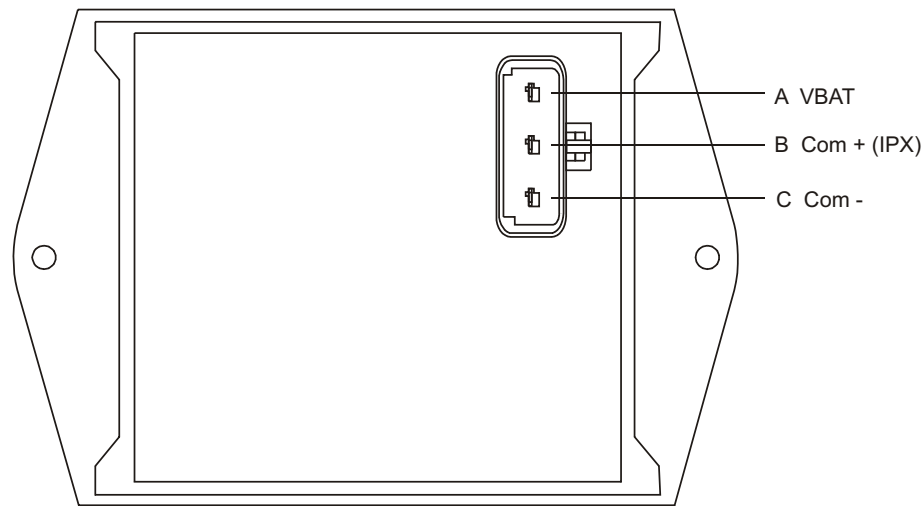
X = Jumper is Out

JUMPERS 4 3 2 1	Address	JUMPERS 4 3 2 1	Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P

Ten Inputs labeled Switch 1-10 can be individually set for either positive (high-side) switched to the battery, or negative (low-side) switched to ground. Setting a jumper to short pins AB selects positive switch. Setting a jumper to short pins BC selects negative switch.

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A VBAT

B Com + (IPX)

C Com -

The Load Manager Voltage Input Module provides 4 inputs to the PMC system corresponding to specific battery voltages. In order to provide an accurate indication of system voltage, the Voltage Input Module should be located physically close to the vehicle's battery. *Care should be taken to minimize any voltage drop that may occur between the battery and the module.*

Only 3 connections to the module are needed.

A. Battery + (Wire should be connected to the + Battery post. *Do not use* the + 12 volts provided by the PMC CPU)
B. PMC Communications Bus
C. PMC Ground (Wire should be connected to the Battery - post. The CPU should be grounded to the Battery - post as well)

This module has been potted and provided with a Metripac water-tight connector to facilitate placement near the battery. This module has been addressed at the factory as module "P".

FOR 12 VOLT SYSTEMS
Channels P7, P8, P9, and P10 will be on as follows.

P7 is ON when the battery voltage is >13.3 Volts

P8 is ON when the battery voltage is >12.8 Volts

P9 is ON when the battery voltage is >12.3 Volts

P10 is ON when the battery voltage is >11.8 volts.

FOR 24 VOLT SYSTEMS

P7 is ON when the battery voltage is > 26.6 Volts

P8 is ON when the battery voltage is > 25.6 Volts

P9 is ON when the battery voltage is > 24.6 Volts

P10 is ON when the battery voltage is >23.6 volts.

The inputs from this module can be used in the PMC system with boolean logic statements to force selected loads off as the system voltage falls. You may also wish to turn an output on to indicate to the engine controller that high speed idle is needed.

Channels P1 through P6 are still available to be used as virtual channels, or a module such as a 6-position rocker switch adapter or a push button switch module could be addressed for module P.

CONNECTIONS FOR 18 AWG WIRE
Connector with 5.5 inch pigtail
  (Intellitec P/N 11-00393-000)

OR USE

Delphi Packard Metripack
12110293 Connector
12048074 Contact
12110213 Cable Seal
12052845 Lock

P/N 00-00809-120 12 Volt
P/N 00-00809-240 24 Volt

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9 Rocker Switch Direct Plug-In Adapter
00-00656-909/919 PMC Rocker Switch Adapter

PMC Rocker Switch Adapters 909 & 919 are members of Intellitec's Programmable Multiplex Control Family. They work in combination with the PMC CPU and other standard, semi-custom, or custom I/O modules.

ITT rocker switches (also known as SWF, Britax, or Sprague) plug directly into the 909, or 919 Adapter, eliminating the need for a harness, or separate wiring to each switch. All switch information is directly communicated to the PMC CPU via the two wire PMC communications link. The third wire provides power to the lamps. The PMC connection is made with an AMP Mate-N-Lok connector to reduce installation time and errors. The switch indicator lamps are controlled directly on the adapter. When the switch is off, half of the battery voltage is supplied to the lamp for backlighting. When the switch is turned on, full battery voltage is applied to the lamp.

The switches do not control the loads or functions directly, they simply communicate information to the PMC CPU. Due to this fact, the switches do not have to be complex, eliminating the need for multiple poles or multiple throws. The switches can be more simple and less expensive, reducing the different types of switches used. The Windows based setup replaces the need for SPDT, DPDT and other switch configurations.

Contact Intellitec if adapters are needed for other switch manufacturers, or other layouts. Intellitec can also design and manufacture custom switch panels to suit your specific requirement.

The approximate module dimensions are 2.75" wide X 6.40" tall X 1.375" deep (69.9mm X 162.6mm X 34.9mm). It should be installed in a protected environment inside of the vehicle.

Sprague/ITT Switches and Bezels not Included

Patent No. 4,907,222 & 6,011,997
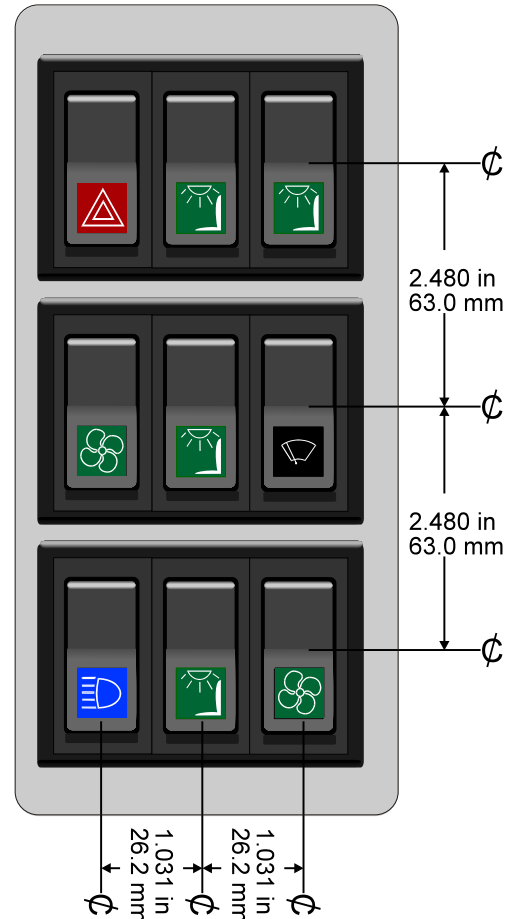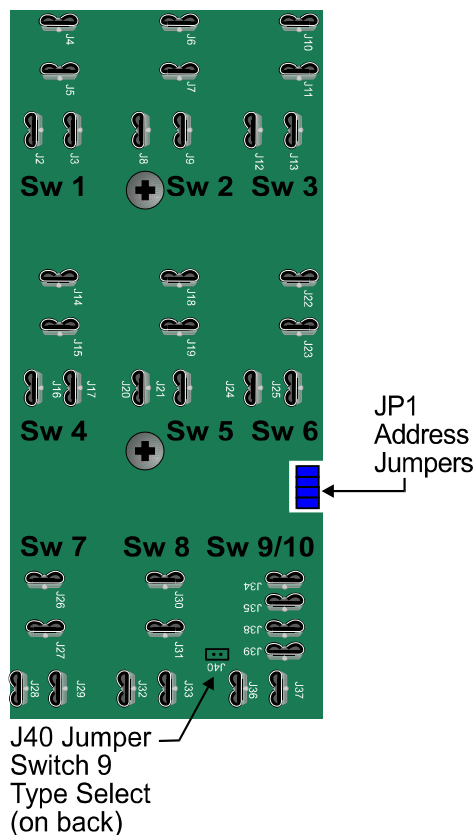
P/N 53-00656-000   Rev. 121003

Intellitec **PMC System**

Intellitec
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9 Rocker Switch Direct Plug-In Adapter
00-00656-909/919 PMC Rocker Switch Adapter

SPECIFICATIONS

General Connections		00-00656-919	00-00656-909
Nominal Vehicle Voltage		12V	24V
J1-1	Power for Indicator Lamps	5 Amps Max.	5 Amps Max.
J1-2	Multiplex Signal	18 awg Min	18 awg Min
J1-3	Multiplex Ground	14 awg Min	14 awg Min

CHANNEL DESIGNATIONS

Channel	Connection	Type	Name
1	J4/5	Rocker Switch Type 1	Switch 1
2	J6/7	Rocker Switch Type 1	Switch 2
3	J10/11	Rocker Switch Type 1	Switch 3
4	J14/15	Rocker Switch Type 1	Switch 4
5	J18/19	Rocker Switch Type 1	Switch 5
6	J22/23	Rocker Switch Type 1	Switch 6
7	J26/27	Rocker Switch Type 1	Switch 7
8	J30/31	Rocker Switch Type 1	Switch 8
9	J34/38	Rocker Switch Type 1, 2 or 3	Switch 9/10
10	J35/39	*(Combined with Channel 9)*	

NOTE   Rocker switches 1 thru 8 can only be Type 1. Rocker Switch 9 can be 1, 2, or 3 with proper setting of Jumper J40. As Type 2 o r 3 the CPU views the single switch as two separate switches receiving information in one position on Channel 9 and the other position on channel 10.

Switches and bezels not included (Bezel ITT P/N 595 502)

Rocker Switch	Function	Jumper J40	00-00656-909	00-00656-919
Type 1	SPST N.O.	OUT	511 002	511 001
Type 2	SPDT (2 speed fan) (3-pos. OFF/LOW/HI)	IN	511 028	511 027
Type 3	SPDT (2-pos. Momentary w/Center OFF)	IN	511 067	511 066

MATING CONNECTIONS

Designator	Connector	Mating Part #	Contact,Typical	
			For 14-18 AWG	*for 10-12 AWG*
J1PMC	3 Pin Amp Mate-N-Lok	1-480700-0	350919-3	640310-3

MODULE SETTINGS

Module can be set for 1 of 16 address, A-P.
Set four jumpers on jumper block JP1 per table on right.

X = Jumper is OUT

JUMPERS 4 3 2 1	MODULE Address	JUMPERS 4 3 2 1	MODULE Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P

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www.intellitec.com

6 Rocker Switch Direct Plug-In Adapter
00-00643-906/916 PMC Rocker Switch Adapter

PMC Rocker Switch Adapters 906/916 are members of Intellitec's Programmable Multiplex Control Family. They work in combination with the PMC CPU and other standard, semi-custom, or custom I/O modules.
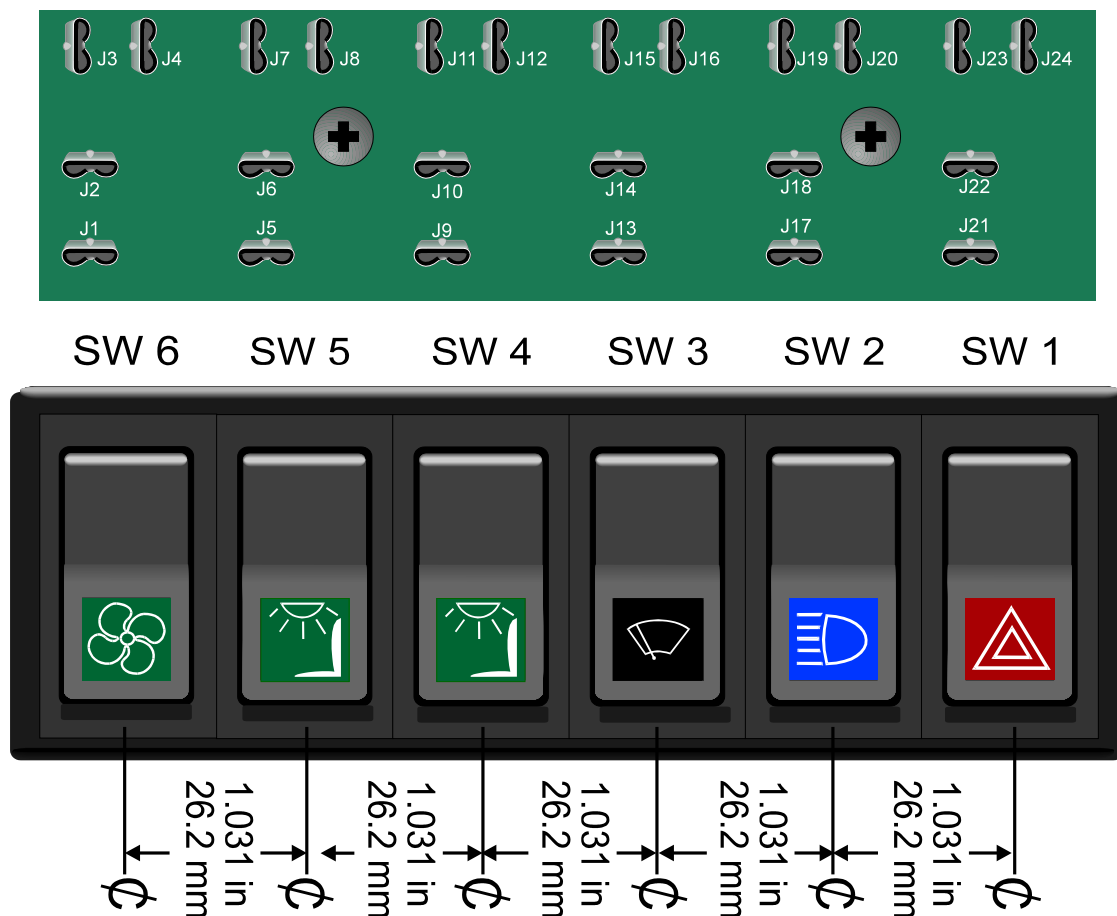
ITT rocker switches (also known as SWF, Britax, or Sprague) plug directly into the 909 or 919 Adapter, eliminating the need for a harness, or separate wiring to each switch. All switch information is directly communicated to the PMC CPU via the two wire PMC communications link. The third wire provides power to the lamps. The PMC connection is made with an AMP Mate-N-Lok connector to reduce installation time and errors. The switch indicator lamps are controlled directly on the adapter. When the switch is off, half of the battery voltage is supplied to the lamp for backlighting. When the switch is turned on, full battery voltage is applied to the lamp.

The switches do not control the loads, or functions directly, they simply communicate information to the PMC CPU. Due to this fact, the switches do not have to be complex, eliminating the need for multiple poles, or multiple throws. The switches can be simpler and less expensive, reducing the different types of switches used. The Windows based setup replaces the need for SPDT, DPDT and other switch configurations.

Contact Intellitec if adapters are needed for other switch manufacturers or other layouts. Intellitec can also design and manufacture custom switch panels to suite your specific requirement.

The approximate module dimensions are 2.75" wide X 6.40" tall X 1.375" deep (69.9mm X 162.6mm X 34.9mm). It should be installed in a protected environment inside of the vehicle.

Sprague/ITT Switches and Bezels not Included

SW 6   SW 5   SW 4   SW 3   SW 2   SW 1

1.031 in 26.2 mm

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6 Rocker Switch Direct Plug-In Adapter
00-00643-906/916 PMC Rocker Switch Adapter

SPECIFICATIONS

General Connections

		00-00643-916	00-00643-906
Nominal Vehicle Voltage		12V	24V
J25-1	Power for Indicator Lamps	5 Amps Max.	5 Amps Max.
J25-2	Multiplex Signal	18 awg Min	18 awg Min
J25-3	Multiplex Ground	14 awg Min	14 awg Min

CHANNEL DESIGNATIONS

Channel	Connection	Type	Name
1	J1/2	Rocker Switch Type 1	Switch 1
2	J5/6	Rocker Switch Type 1	Switch 2
3	J9/10	Rocker Switch Type 1	Switch 3
4	J13/14	Rocker Switch Type 1	Switch 4
5	J17/18	Rocker Switch Type 1	Switch 5
6	J21/22	Rocker Switch Type 1	Switch 6
7		Not Available	
8		Not Available	
9		Not Available	
10		Not Available	

NOTE *Rocker switches 1 thru 8 can only be Type 1.*

   Switches and bezels not included

SPRAGUE / ITT PART NO.

Rocker Switch	Function	00-00643-906	00-00643-916
Type 1	SPST N.O.	511 002	511 001
	SPST N.O. Momentary	511 009	511 008
	6 pos. Switch w/Bezel	595 902	595 902

MATING CONNECTIONS

Designator	Connector	Mating Part #	Contact, Typical	
			For 14-18 AWG	*for 10-12 AWG*
J1PMC Link	3 Pin Amp Mate-N-Lok	1-480700-0	350919-3	640310-3

MODULE SETTINGS

Module can be set for 1 of 16 address, A-P.
Set four jumpers on jumper block JP1 per table on right.

X = Jumper is OUT

JUMPERS 4 3 2 1	MODULE Address	JUMPERS 4 3 2 1	MODULE Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P

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5 Rocker Switch Direct Plug-In Adapter
00-00842-012/024 PMC Rocker Switch Adapter

PMC Rocker Switch Adapters 842 are members of Intellitec's Programmable Multiplex Control Family. They work in combination with the PMC CPU and other standard, semi-custom, or custom I/O modules.

Carling Contura II Series rocker switches plug directly into the adapter, eliminating the need for a harness, or separate wiring to each switch. All switch and indicator light information is directly communicated to and from the PMC CPU via the two wire PMC communications link. A third and fourth wire provides power and ground for the lamps. The PMC connection is made with an AMP Mate-N-Lok connector to reduce installation time and errors. The switch indicator lamps are controlled by the CPU and are treated in the same fashion as any other output. Each switch provides an input signal to the system (Channels 1-5) and each indicator lamp is a programmable output (Channels 6-10).

If more than 5 switches are required, the switch adapters may be daisy chained and will mount end to end and allow the switch spacing to be maintained. The switches do not carry the loads directly; they simply communicate information to the PMC CPU.

CHANNEL DESIGNATIONS
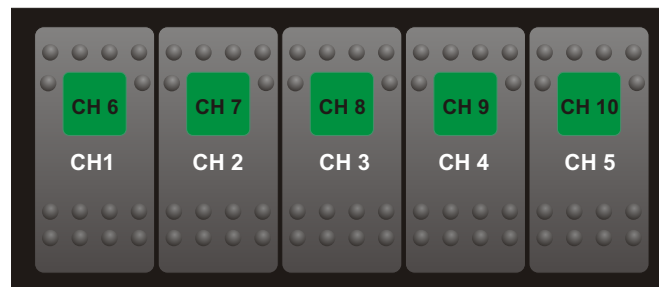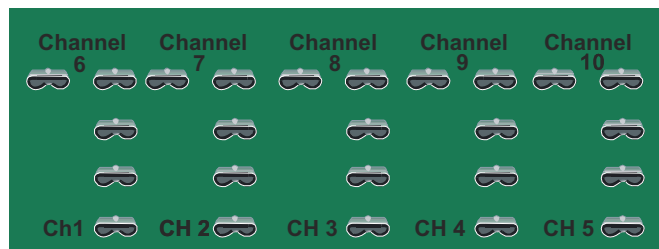
Switch spacing 1.00 Inches
Adapter Dimensions 5" x 1.5"

Since the switch indicator lights are programmable outputs, the indicators will operate based on logic instructions. For example, if an output is programmed to operate from more than one switch, the indicator lights for each switch can be programmed to come on when the output is on. Switch indicators could be made to flash or light steady depending upon variable conditions. This might be used if you program a load management feature and the load manager has shed the load.

3 POSITION ON/OFF/ON SWITCH

In some instances, it is desirable to use a 3 position switch. Typical applications would be a two speed fan or bright/dim lighting. In this case, a single switch location will require two inputs.

On the back of the switch adapter, connector J2 provides a means of connecting to the second switch contact on each switch. The first contact, on each switch is connected to inputs 1-5 on the adapter. When using an ON/OFF/ON switch, the second contact can now be brought to another input in the system. This input could be any high side input available in the system, such as an open input on a 00-00622-110 module.   As an alternative you may have an unpopulated switch location on this or any other switch adapter.   Connector J3 allows you to make connections to the inputs located on the switch adapter. The switch adapter inputs are high side inputs (+Battery Volts).

If a switch location is not populated, you may also use the unused indicator light output from that location to switch the ground side of another panel indicator light.

This module should be installed in a protected environment inside of the vehicle.

CARLING SWITCH CONTURA II SERIES

Rocker Switch	Function	12 Volt	24 Volt
SPST N.O.	ON/OFF	V1D1A6B	V1B1A8B
SPDT	ON/OFF/ON	V6D1A6B	V6B1A8B

Carling part numbers are not complete. Additional digits describe actuators, color, legends etc. *Contact Carling for details.*

***Carling Contura II Switches not included**

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5 Rocker Switch Direct Plug-In Adapter
00-00842-012/024 PMC Rocker Switch Adapter

SPECIFICATIONS

General Connections

00-00842-012   **12 Volt**

00-00842-024   **24 Volt**

J1-1	+ Bat (from CPU)	18 awg Min
J1-2	SIG + (from CPU)	18 awg Min
J1-3	SIG - (from CPU)	14 awg Min
J1-4	Power Ground	14 awg Min

J2-1   SW1 Carling Terminal 1 (Used with SPDT center off switch)
J2-2   SW2 Carling Terminal 1 (Used with SPDT center off switch)
J2-3   SW3 Carling Terminal 1 (Used with SPDT center off switch)
J2-4   SW4 Carling Terminal 1 (Used with SPDT center off switch)
J2-5   SW5 Carling Terminal 1 (Used with SPDT center off switch)

J3-1   Input Channel 1
J3-2   Input Channel 2
J3-3   Input Channel 3
J3-4   Input Channel 4
J3-5   Input Channel 5
J3-6   No Connection

3 POSITION ON/OFF/ON SWITCH

EXAMPLE

A two position switch is placed in switch positions 1, 2 and 4. Position 3 has a 3 position switch and position 5 is not populated.

To bring the additional switch contact from switch 3 in as an input to the system, make a connection from J2-3 to J3-5. Channel 5 on this module will now represent the second switch contact of switch 3.

If all switch positions are filled with a switch you could bring a wire from J2-3 to any high-side input on any module in the system.

Intellitec Multiplexing

PMC Rocker Switch Adapter
00-00842-012
12 Volt
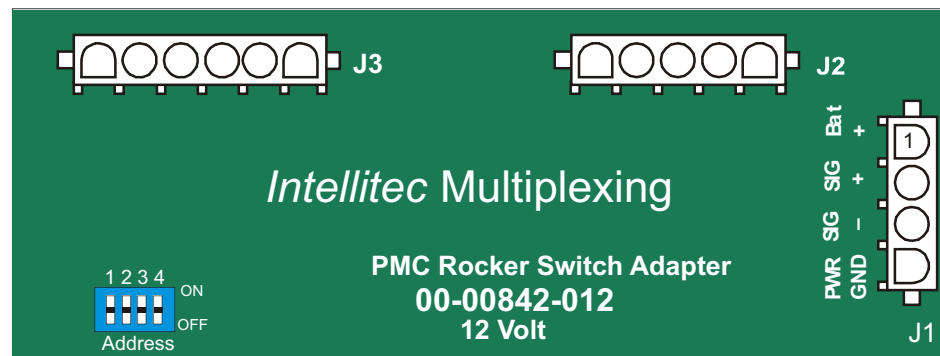
Pins J1-1, J1-2, and J1-3 from CPU

SWITCH ADAPTER BACKSIDE

MATING CONNECTIONS

Designator	Function	Connector	Mating Part #	Contact, Typical
J1	PMC Link	4 Pin Amp Mate-N-Lok	1-480702-0	350919-3 for 14-18 AWG
J2	Switch Contact	5 Pin Amp Mate-N-Lok	1-480763-0	350919-3 for 14-18 AWG
J3	Input Channels	6 Pin Amp Mate-N-Lok	640585-1	350919-3 for 14-18 AWG

MODULE SETTINGS

Module can be set for 1 of 16 addresses, A-P.
Set four switches per table to the right.

X= Switch OFF

Dip SW 4 3 2 1	MODULE Address	Dip SW 4 3 2 1	MODULE Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P

Intellitec

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Programmable Keypads
PMC and Multipoint Switching System

Intellitec's Programmable Keypads are members of Intellitec's Programmable Multiplex Control Family, as well as the 160 Channel Multipoint Switching System (RV Multiplex). They work in combination with the 160 Channel IPX Master (00-00837-000) or the PMC CPUs (00-00622-021 or 00-00800-022) and other standard, semi-custom, or custom I/O modules. T*here are a variety of different keypads to select from.*

FEATURES

➢ Available in 4, 6 and 10 button versions
➢ Available with Green backlighting and Red Indicators, or Green backlighting and Amber indicators
➢ Units have *extra bright* LEDs that can be dimmed via PMC programming or software
➢ Push button legends are easily created and applied by the installer
➢ Programmable via a Windows interface and GUI provided by Intellitec. Each button, indicator and backlighting can be easily programmed by the installer to communicate on any PMC System, or Multipoint Switching System channels
➢ Wall cover plates are available in white, black, or pumice
➢ Keypads can be mounted behind a panel with cut-outs, or on the surface with wall cover plates

LEGENDS

The installer can determine what the legend will be for each button. With the cover plate removed, a strip of paper can be inserted into the keypad which will legend 5 buttons at one time. The paper strips with legend can be made on a computer printer. You may wish to experiment with different kinds of paper as the lighting effect will vary with the paper used. We have found drafting Mylar used in a laser printer, or copy machine provides a good effect.

WIRING

Regardless of the number of buttons, each keypad has a 3-pin Amp Mate-N-Lok connector. When connected to a PMC CPU, or Multipoint Switching Master (RV Multiplex) only 3 wires are needed . These same 3 wires connect to every switch panel in the vehicle. For example, a motor coach may have 10 or more, 10 button switch panels. That's 100 lighted switches connected by only 3 wires !

BACKLIGHTING

Backlighting for the keypads is provided by green LEDs. Depending upon programming and the keypad selected, backlighting can be turned on, off, or dimmed.

If backlighting is off, then anytime a pushbutton is pressed, the backlighting for that local keypad will turn on for 15 seconds. During this time other keypads in the system will remain un-lit.

For PMC keypads, backlighting can be programmed to respond to a specific channel allowing it to turn on, off, or dim.

For the Multipoint Switching System momentarily activating a button assigned to channel BL/MR will turn the backlighting on for all keypads connected to the system.   Momentarily activating it again*,* will turn the backlighting off.   This can be done by using the programming GUI to assign channel BL/MR to one or more of the buttons in the system. Keypads can also be programmed so these functions only affect the local keypad. *(Further details to follow)*

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Programmable Keypads
PMC and Multipoint Switching System

MATING CONNECTIONS

Function	Connector	Mating AMP Part #	Contact *(for 14-18 AWG)*
PWR & COMM	3 Pin Amp Mate-N-Lok	1-480700-0	350919-3

J1-1	External PWR from CPU	16 awg Min.
J1-2	Multiplex Signal	18 awg Min.
J1-3	Multiplex Ground (Sig-)	14 awg Min.

CAUTION Please use 14 awg Min. on multiplex Ground (Sig-) Pin 3

J2 4-Pin Programming connection, located on front side of keypad.   Allows programming after installation.

Programming Kit, *P/N 10-00849-000*

Software download available at www.intellitec.com

KEYPADS FOR USE WITH THE PMC SYSTEM USING CPUs 00-00622-021 AND 00-00800-022

PMC 12V		# of Buttons	Back light / Indicator Light	Dimmable Lighting	Windows Software
00-00870-010		10	Bright Grn/Amber	Yes	870
00-00870-210		10	Bright Grn/Red	Yes	870
00-00874-006		6	Bright Grn/Amber	Yes	874
00-00874-206		6	Bright Grn/Red	Yes	874
00-00870-006 **		6	Bright Grn/Amber	Yes	874
00-00870-206 **		6	Bright Grn/Red	Yes	874
64-00274-000**		6	Cover Plate (specific)		

PMC 24V		# of Buttons	Back light / Indicator Light	Dimmable Lighting	Windows Software
00-00879-010		10	Bright Grn/Amber	Yes	870
00-00879-210		10	Bright Grn/Red	Yes	870
00-00880-006		6	Bright Grn/Amber	Yes	874
00-00880-206		6	Bright Grn/Red	Yes	874

**Switch Panel p/n 00-00870-006 and -206 are 6 button switch panels; each has 4 inputs to be used with remote switches. The cover p/n is 64-00274-000.

All 6 Button Switch Panels may be modified to make a 4 Button Switch Panel available, if desired.

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Programmable Keypads
PMC and Multipoint Switching System

The PMC and Multipoint Switching System are multiplexed systems consisting of 16, 10 channel modules for a total of 160 addressable channels. Each of the 16 modules has a designated letter address of A - P. Each of the 160 channels is designated A1 thru A10, ... P1 thru P10. The 320 channel system has two communications loops of 160 channels each.

PMC KEYPAD FUNCTION

Using a Windows based software program each button on a keypad can be programmed to be an input which communicate on any of the 160 channels.

The keypad backlighting can be programmed as an output communicating on any channel on the system so that it can be turned on or off via logic commands.

Each push button indicator light can be programmed to be any output channel in the system.   This allows logic commands to turn the switch indicator light on or off. You could for example have the indicator only turn on when the output is on. For example, in an emergency vehicle, you could turn the load off and the switch indicator light turns on whenever the voltage gets to be too low.

The indicator lights and backlighting are dimmable on some switch models. Specific channels can be programmed, which will cause the backlighting and indicator lights to dim. For example, you may wish to dim the indicators when the headlights are on. Using the programming GUI, the intensity of the LEDs can be programmed. An example of the Windows GUI screen that is used to program a keypad is shown below. Once the settings have been made, a file can be saved on your computer, so that you may program additional keypads in the future.
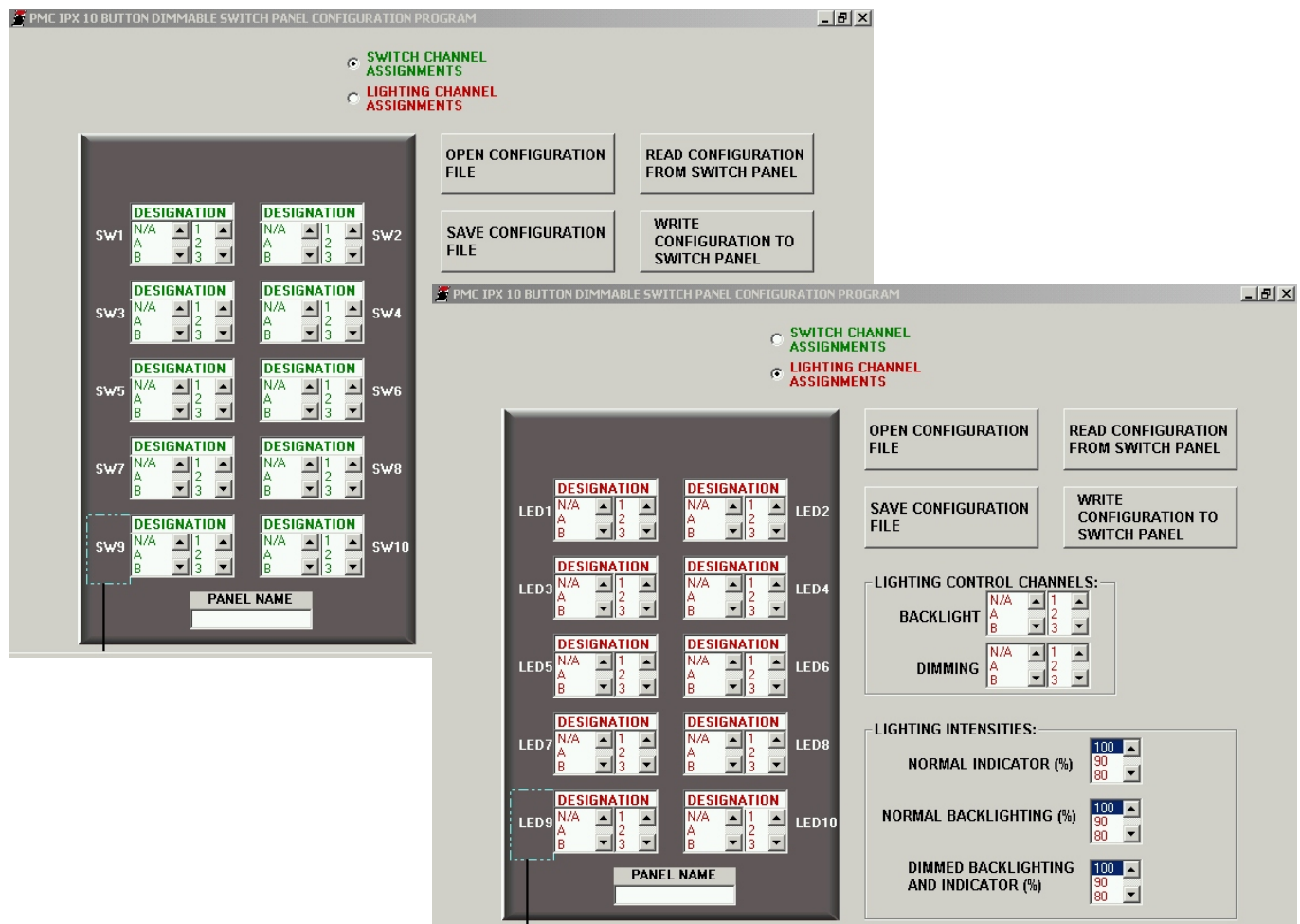
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Programmable Keypads
PMC and Multipoint Switching System

MULTIPOINT RV MULTIPLEX KEYPAD FUNCTION

In this system each pushbutton can be programmed for one of the systems 160 channels. When using the 00-00837-000 Master and latching output modules, each pushbutton is programmed to the same channel that the output is on. For example, if you wish to control the output with address B5, you would program one or more pushbuttons to channel B5 using the Windows GUI below. The 869 and 873 GUI can be used to set the intensity of the LEDs. *In addition, the GUI can be used to set a Keypad for independent backlighting control.* When this box is checked, the backlighting and indicators can be toggled on/off locally without affecting other keypads in the system. This is accomplished by assigning BL/MR to one of the buttons. A momentary press of this button will turn the backlighting and indicators off for that switch panel. Pressing and holding the button set for BL/MR will turn all outputs and keypad lights off in the entire vehicle. If the local box is not checked, a momentary press of a BL/MR button will turn off all backlighting and indicators in the vehicle. Pressing and holding a BL/MR button will turn every output and keypad light off. If backlighting is turned off, a momentary press of any button will turn backlighting on for that keypad.

KEYPADS FOR USE WITH THE MULTIPOINT (RV MPX) SYSTEM USING MASTER 00-00837-000

RV Multiplex		# of Buttons	Back light / Indicator Light	Dimmable Lighting	Windows Software
00-00869-010		10	Bright Grn/Amber	Yes	869
00-00869-210		10	Bright Grn/Red	Yes	869
00-00873-006		6	Bright Grn/Amber	Yes	873
00-00873-206		6	Bright Grn/Red	Yes	873

RV Multiplex		# of Buttons	Back light / Indicator Light	Dimmable Lighting	Windows Software
**00-00869-006		6	Bright Grn/Amber	Yes	869
**00-00869-206		6	Bright Grn/Red	Yes	869
**64-00274-000		6	Cover Plate (specific)		

**Switch Panel p/n 00-00869-006 and -206 are 6 button switch panels; each has 4 inputs to be used with remote switches. The cover p/n is 64-00274-000.

All 6 Button Switch Panels may be modified to make a 4 Button Switch Panel available, if desired.
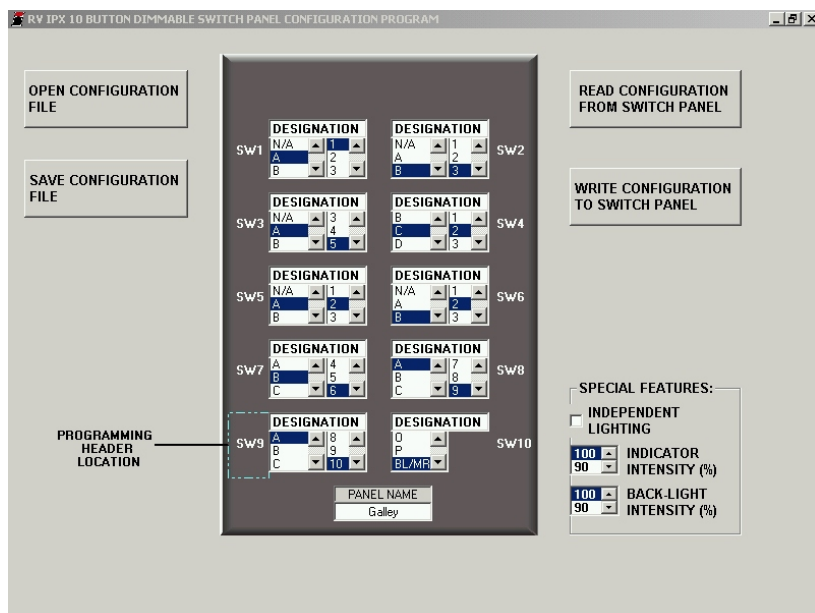
# of Buttons	Cover Plate	Color
10	64-00272-000	Black
4	64-00276-000	Black
6	64-00277-000	Black
10	64-00272-100	White
4	64-00276-100	White
6	64-00277-100	White
10	64-00272-200	Pumice
4	64-00276-200	Pumice
6	64-00277-200	Pumice

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PMC and Multipoint Switching System
00-00759-000 PMC Push Button Switch Module

Model 759 Push Button Switch Module provides 5 addressable momentary switches and 5 addressable LEDs. Connection is made to the PMC system via a 3-pin Mate-N-Lok connector. As with other PMC modules, a jumper block on the back of the switch panel is used to set the module address for the panel. If two switch panels are set for the same address, their buttons will control the same outputs. Boolean logic statements can be written so that selected buttons on any keypad at any address will control the same outputs.

The switch LEDs can be programmed as any other output in the system and will come on based on the boolean logic statement written for them. The most common use is to set them equal to the output that they turn on. When this is done, the LED will indicate the actual state of the output. In other words, if two switches are used to turn a light on, then the LED at each panel can be made to be on when the light is on.
The sixth switch when pressed provides an input on Channels A1 and A2 of the PMC system regardless of the address the switch panel is set for. For this reason, the switch panel should not be set to address A.

UTILIZING THE SIXTH SWITCH
Channel A2 is connected to the panels incandescent backlighting. By checking the latched switch box on the boolean editor screen for channel A2, the backlighting can be turned on and off using the sixth switch from any switch panel in the system.

Using the "momentary switch latch" check box in the boolean editor screen for the switch channels allows any momentary switch to operate in a push on/push off fashion.

If you choose, Channel A1 can be used with a timer as a master off switch. By pressing and holding the sixth switch, you can cause outputs that you select to turn off when the button is held.   In this case, a latching boolean for the outputs would be written, instead of latching the switch that is cleared by A1 and the timer.

Switch Legends printed on paper with computer printer. Paper placed under overlay w/clear windows.
Size 2-5/8 x 4-3/4

CHANNELS
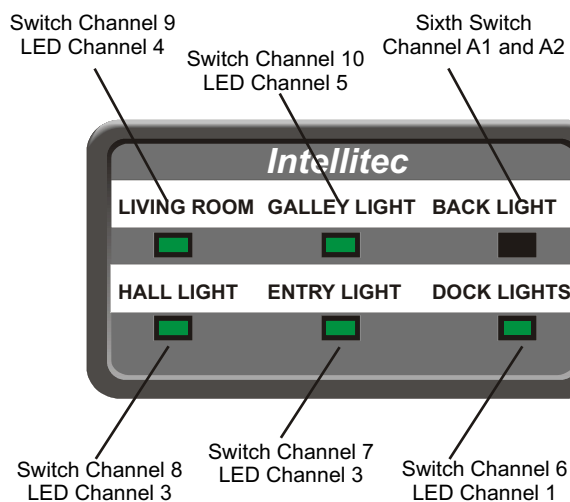
00-00759-000 12 VOLT

PMC Warning Light Adapters 806 & 816 are members of Intellitec's Programmable Multiplex Control family. They work in combination with the PMC CPU and other standard, semi-custom or custom I/O modules.

ITT warning lamps *(also know as SWF, Britax, or Sprague, not provided)* plug directly into the 806 or 816 Adapter, eliminating the need for a harness or separate wiring to each lamp. The lamps are controlled by the central PMC CPU via the two wire PMC communications link. The third wire provides power to the lamps. The 3 wire PMC connection is made with an AMP Mate-N-Lok connector to reduce installation time and errors. The six warning lights require only 3 wires vs. conventional wiring scheme needing as many as 12.

Contact Intellitec if adapters are needed for other lamp manufacturers or other layouts. Intellitec can also design and manufacture custom lamp or switch panels to fit your specific requirement.

The approximate module dimensions are 3.00" wide X 1.90" tall X 2.30" deep (75.6mm X 48.3mm X 58.5mm). *The module should be installed in a protected environment inside of the vehicle.*
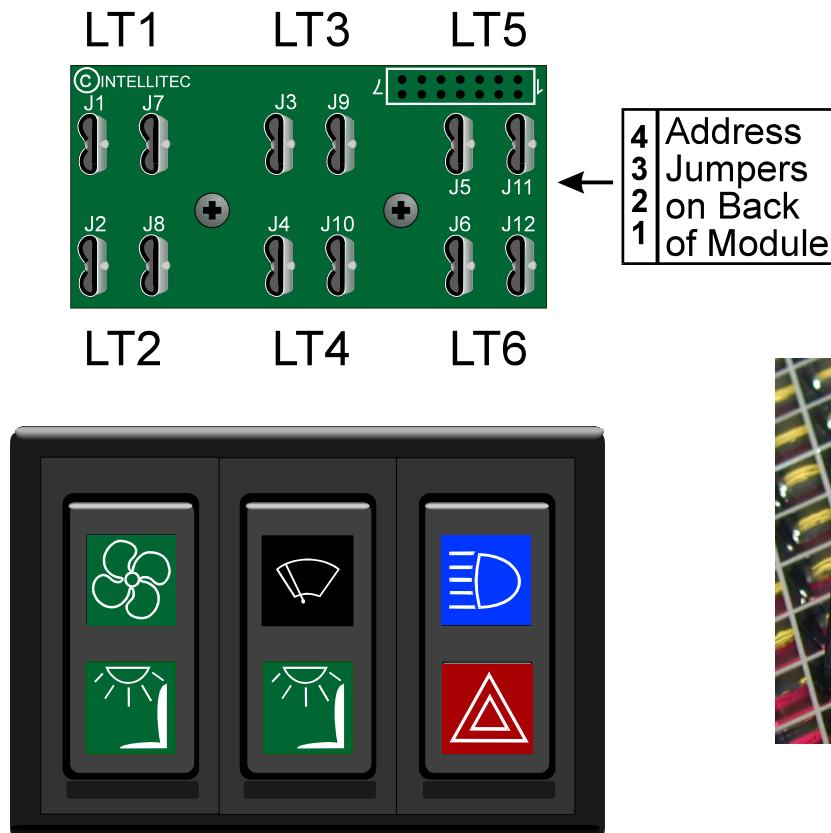
Uses ITT, Spague Warning lights

SPECIFICATIONS

General Connections

	00-00644-816	00-00644-806
Nominal Vehicle Voltage	12V	24V
Max Lamp Current (applies to 12/24V)	5 Amps/Module (0.083 Amps/Lamp)	

		00-00644-816	00-00644-806
J13-1	Power for Indicator Lamps	5 Amps Max.	5 Amps Max.
J13-2	Multiplex Signal	18 awg Min	18 awg Min
J13-3	Multiplex Ground	14 awg Min	14 awg Min

CHANNEL DESIGNATIONS

Channel	Connection	Type	Name
1	J1/7	Warning Lamp	Light 1
2	J2/8	Warning Lamp	Light 2
3	J3/9	Warning Lamp	Light 3
4	J4/10	Warning Lamp	Light 4
5	J5/11	Warning Lamp	Light 5
6	J6/12	Warning Lamp	Light 6
7		Not Available	
8		Not Available	Channels 7 thru 10 may
9		Not Available	Be used as virtual channels
10		Not Available	When programming the vehicle.

SPRAGUE / ITT PART NO.

	00-00644-816	00-00644-806	
Typical Warning Lamp	511 502	511 503	(not supplied)
Bezel	595 502	595 502	(not supplied)

MATING CONNECTIONS

Designator	Function	Connector	Mating Part #	Contact, Typical	
				For 14-18 AWG	for 10-12 AWG
J13	PMC Link	3 Pin Amp Mate-N-Lok	1-480700-0	350919-3	640310-3

MODULE SETTINGS

Module can be set for 1 of 16 address, A-P.
Set four jumpers on jumper block JP1 per table
on right.

X = Jumper is OUT

JUMPERS 4 3 2 1	MODULE Address	JUMPERS 4 3 2 1	MODULE Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P

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Diagnostic Test Equipment
00-00739-000 Multiplex Module Simulator

The PMC Signal Tester aids in the process of diagnosing I/O and wiring problems in the vehicle. The tester may be connected at any point around the vehicle where there is access to the 3 wire communications bus. The connection may be made while the vehicle's multiplex system is operating, without detrimental effect.

When connected, the tester is capable of displaying the status of every input and output in the system, or forcing any input or output in the system on.
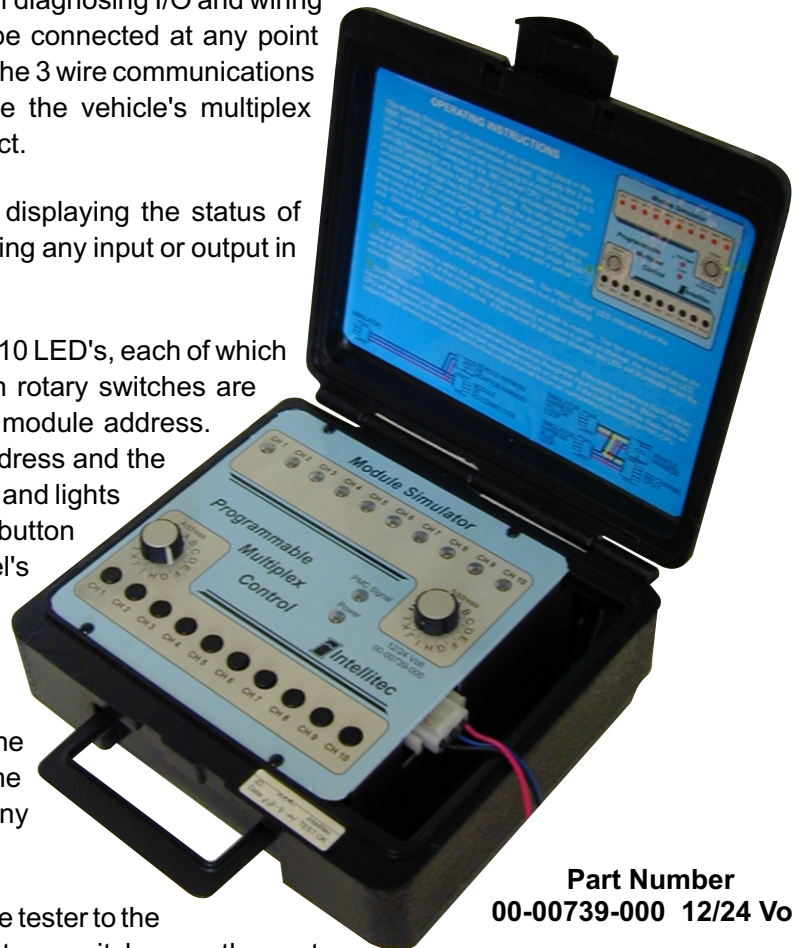
The tester has 10 push button switches and 10 LED's, each of which are related to a channel. Two, 16-position rotary switches are used to set the switches and lights to any module address. The switches can be set for one module address and the lights can be set for another, or the switches and lights may be set for the same address.   If a push button on the tester is set to an output channel's address, pushing the button will cause the output to turn on.   The LEDs will light to reflect the status of both inputs and outputs.

Since it is acceptable to have more than one module in the PMC system with the same address, the tester can be set to duplicate any module from A through P.

Part Number
00-00739-000 12/24 Volt

To use the tester, the technician will attach the tester to the 3 wire bus via the cable set provided. The rotary switches are then set to the address of the modules being simulated. If a channel is active (Output is on, or Input is on) the associated channel LED will illuminate. If a channel is an input channel and the associated push button is pressed, the PMC system will respond as though the actual input switch is active. If the channel is an output channel, pressing the associated button will force the system to turn the channel on regardless of the boolean written for the channel, in which case the load associated with the channel should turn on. If it doesn't, a simple test using a test light can be used to check the output and wiring from the output module to the load. This allows the tester to be used to test the functionality of every module and every input, or output in the system.

The PMC signal indicator light indicates that communication with the CPU and the tester is working. This tests the functionality of the CPU and the 3 wire communications bus.

The test set is provided in an 8.5 X 7.8 X 3.75 inch plastic box with hinged lid.
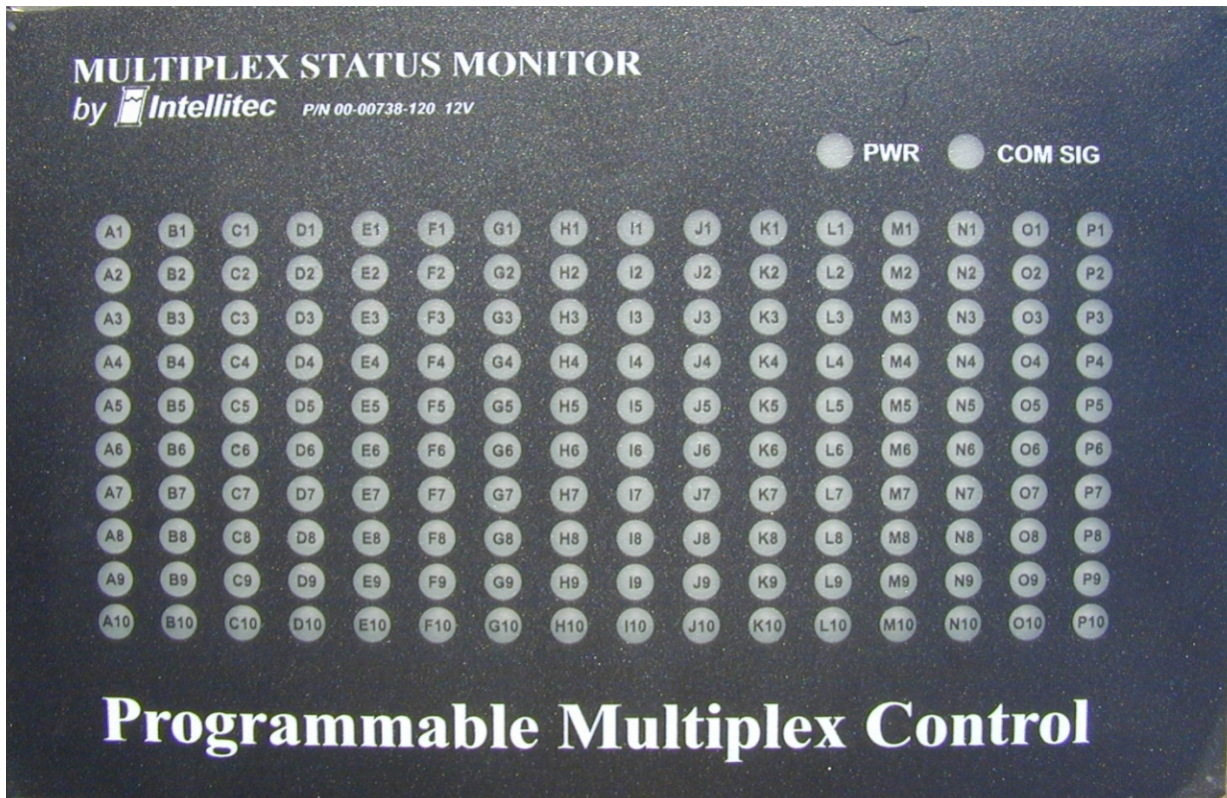
Intellitec **PMC System**

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Diagnostic Test Equipment
00-00738-120 /240 Multiplex System Status Monitor

Part Number
00-00738-120 12 Volt
00-00738-240 24 Volt

The **PMC System Status Monitor** may be used as portable test equipment, or it can be mounted permanently or semi-permanently to the vehicle. It measures 8.6" X 6.6".

The Status Monitor is connected to the PMC system using a 3-pin, Amp Mate-N-Lok connector. The connection can be made at any point around the vehicle where there is access to the 3 wire communications bus.

When connected, the Status Monitor will simultaneously display the status of every input, or output in the system. If an input or output is active, (on) its associated LED will be illuminated.

If the Status Monitor is mounted semi-permanently, it can be moved from one location to another while PMC is operating and can be plugged in at any convenient point in the system.

Plugging and unplugging modules will not upset the PMC system. This feature saves the technician time during troubleshooting, as he does not have to move from zone to zone to observe LEDs on individual modules. He can determine if an input is present or if an output is on or off from any zone.

Two additional LEDs on the Status Monitor indicate if the system is connected to power and if the CPU and communications bus are working.