

S1607.50 50 % DUTY CYCLE PULSE CONVERTER

When third party data acquisition systems are not able to read the 0.7 ms consumption pulse delivered by AIC High Rate flow sensors, the **50 % Duty Cycle Pulse Converter** offers an easy to implement and price competitive solution. By transforming the 0.7ms consumption signal to a 50% duty cycle pulse it makes it readable by most of the third party data acquisition systems.

The **S1607.50** has two output connectors, allowing simultaneous connection of an AIC flowmeter with an AIC board computer and a third party acquisition system. In addition to the 50% duty cycle signal, the **S1607.50** provides a PNP processed consumption signal output which can be used with third party acquisition systems when necessary. The outputs signal are also strengthened.

Note: the 50% duty cycle conversion process induces a lag in the display time of the instantaneous and total consumption. The lag time is limited to 0.5 to 2 seconds, depending on the consumption cycles and data acquisition systems used. If the lag is an issue, the pulse stretcher S1607.00 offers an alternative for increasing the width of the 0.7ms consumption pulse without lag time.

888
Instruktor

900
VERITAS®

1000

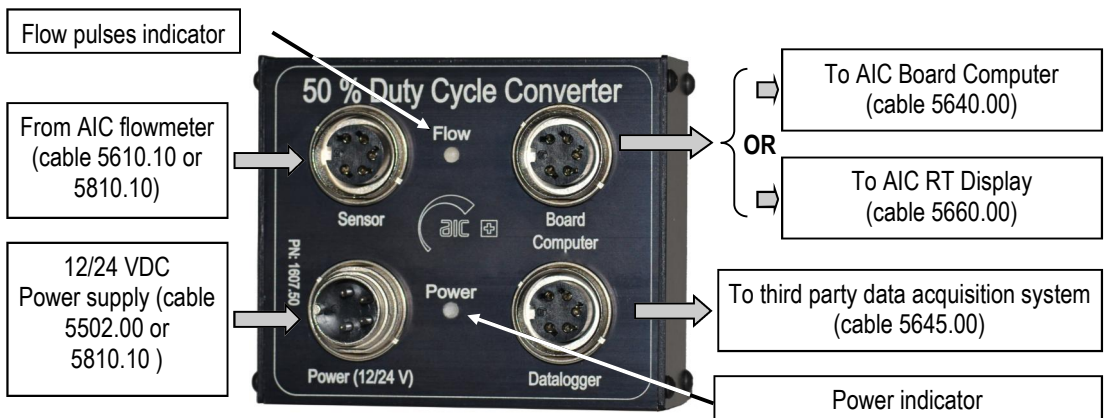
4000
VERITAS®

5000
Fuel flow
Master

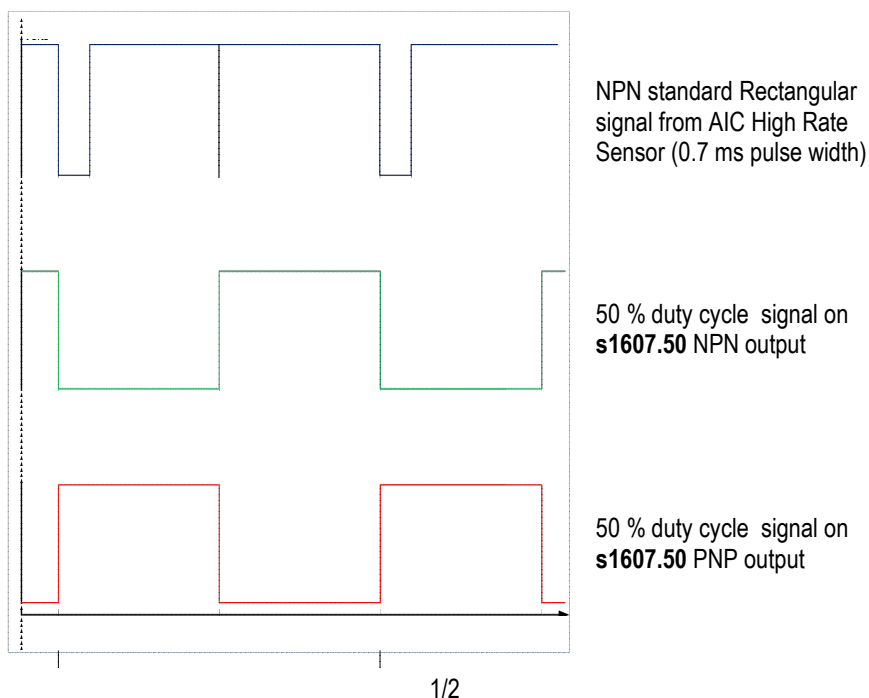
6000
Swissline

FS

Board
Computer
and
Totalizer



Operation



Connectors pinout



5502.00 Supply cable (Option)



Connector: Power (12/24 V)			
Pin	Wire color	Signal	Vehicle terminal
1	Green	0 Volt - Ground	31
2	Brown	+12/24 V - Stand by	30
3	N/C		
4	N/C		



5660.00 Connection cable to Totalizer (option)



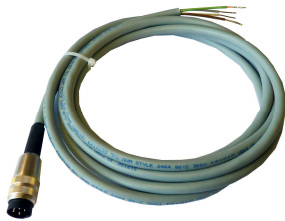
Connector: Sensor		
Pin	Wire color	Signal
1	N/C	
2	Grey	Distance / Tacho signal
3	White	Consumption pulse
4	Brown	Sensor supply
5	Green	0 Volt - Ground



5640.00 Connection cable to BC (Option)



Connector: Board Computer		
Pin	Wire color	Signal
1	N/C	
2	Grey	Distance / Tacho signal
3	White	NPN 50 % duty cycle consumption pulse
4	N/C	
5	Green	0 Volt - Ground



5645.00 Connection cable to third party data acquisition system (option)



Connector: Datalogger		
Pin	Wire color	Signal
1	Yellow	PNP Stretched Consumption pulse
2	Grey	Distance / Tacho signal
3	White	NPN Stretched Consumption pulse
4	N/C	Not Connected
5	Green	0 Volt - Ground

Product characteristics



s1607.50 - 50% Duty Cycle Converter

Electrical	
Supply	8 / 28 VDC protected against pol. reversal
Consumption	< 30 mA
NPN output	28 V / 20 mA max - current limited
PNP output	20 mA max - current limited

Mechanical	
Housing material	Black anodized aluminum
Protection	IP50
Size	85 X 68 X 50 mm
Weight	150 gr