# SWIWIN SW120B 120N thrust micro turbine





#### SW120B complete set



Engine package Contains following items:

Engine and fix ring V3 ECU
Brushless pump
Data terminal
Engine cable
Signal cable
Battery cable
Pump cable
Filter
Ball valve

#### specifications

■ SW120B

■ Diameter : 99mm

■ Length : 250mm

■ Body weight : 1250g

■ Rpm range : 38,000-125,000

Thrust: 120N (12Kg)

■ Max exhaust temp: 700°C

• Max fuel consumption: 350g/min

Maintenance Interval:25-35hrs

Fuel: Jet A1 or Diesel

Lubrication: Mobil jet oil II 5%

Brushless starter

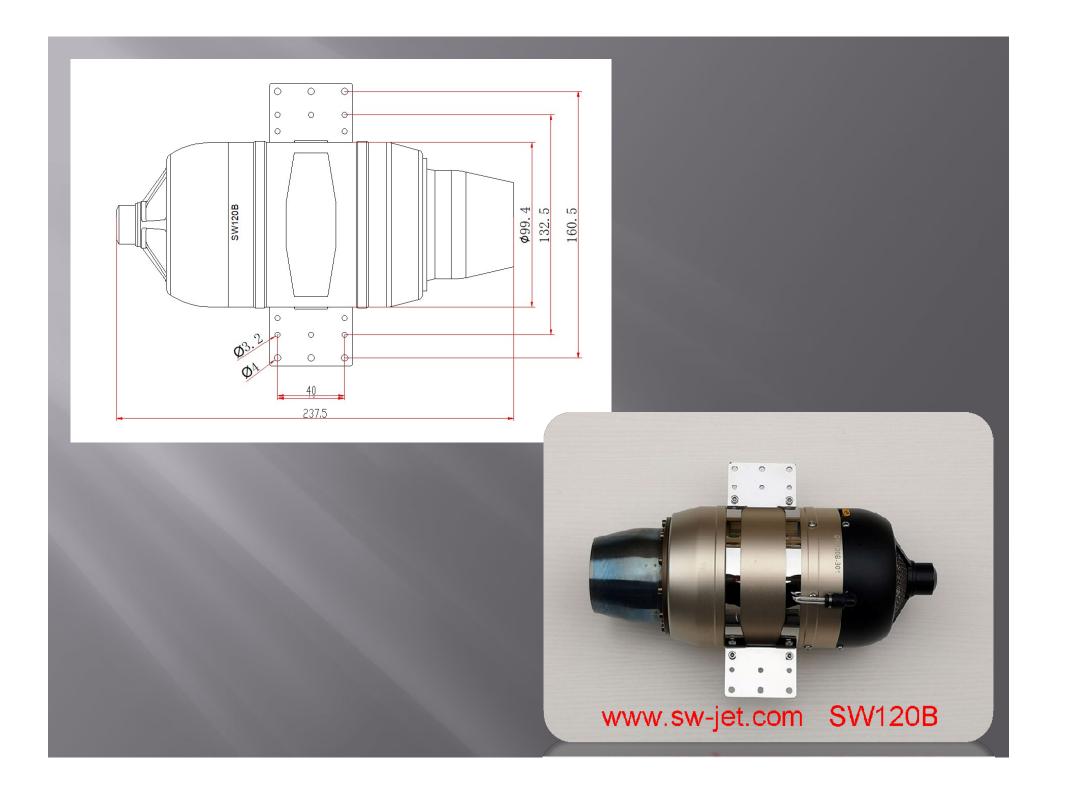
Brushless pump

**Auto-restart function** 

**Telemetry function** 

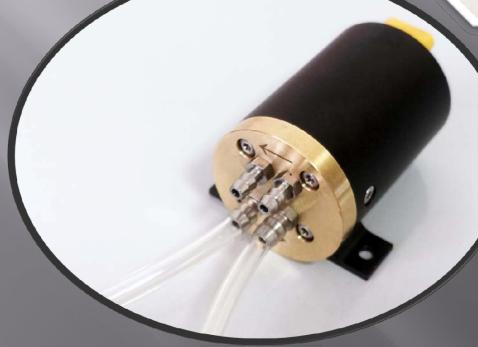
Running data recording

**UART** digital interface









New version Brushless pump



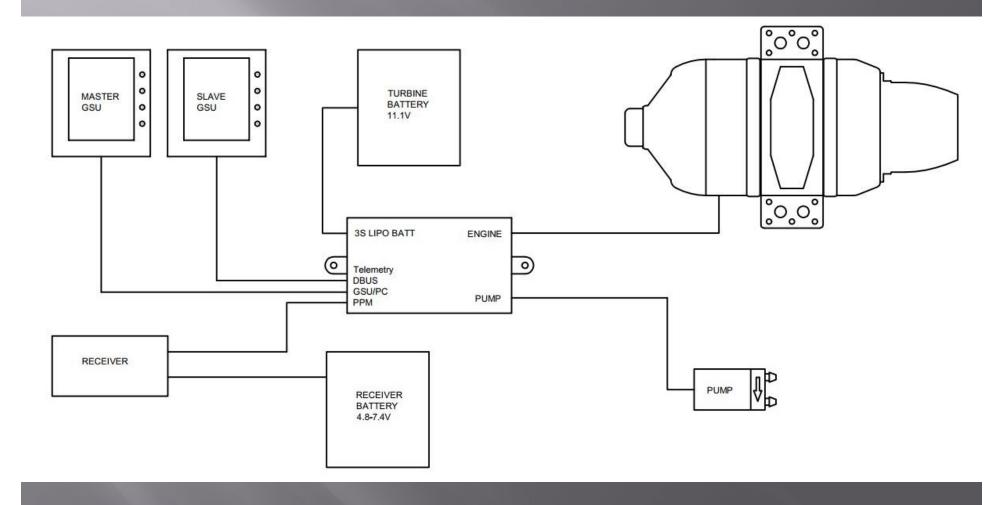


The SWIWIN V3 ECU was designed from the ground up and is based on 32 bit microprocessor functionality and designed specifically for SWIWIN Turbines.

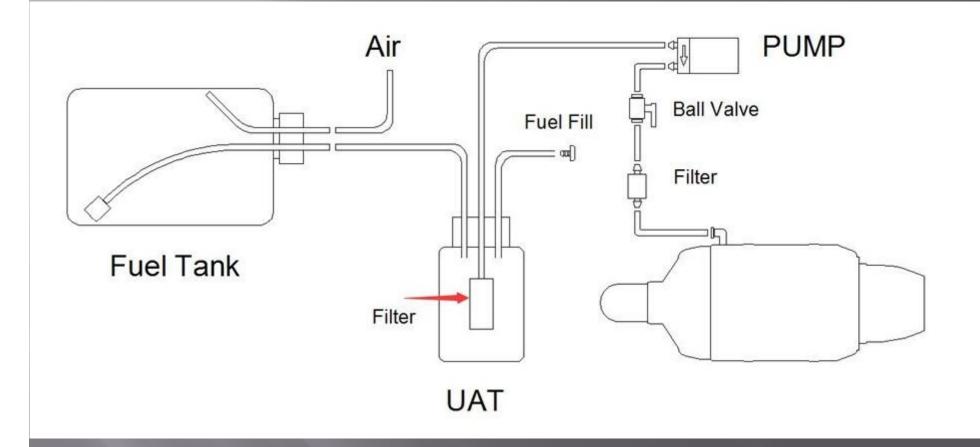
The V3 ECU offers the following benefits:
Data Logging Auto start Automatic Restart
Color Screen visible in direct sunlight
Configurable thrust curve with very fast throttle response
Telemetry function
BUS input
UART Digital interface



## System connection



#### **Fuel line connection**



## **Product line spec**



#### **SWIWIN TURBINE SPEC**

	SW60B	SW80B	SW120B	SW140B	SW170B	SW190B	SW220B	SW240B	SW300B	SW400pro	SW800pro
Diameter	83mm	83mm	99mm	99mm	109mm	109mm	116mm	116mm	133mm	146mm	208mm
Length	198mm	198mm	250mm	250mm	258mm	258mm	275mm	275mm	332mm	342mm	454mm
Weight	765g	765g	1250g	1250g	1450g	1450g	1700g	1700g	2500g	3000g	8500g
RPM range	50,000-	50,000-	38,000-	38,000-	36,000-	36,000-	38,000-	38,000-	38,000-	33,000-	20,000-
	150,000	155,000	125,000	130,000	113,000	116,000	115,000	118,000	98,000	95,000	65,000
Thrust	60N	80N	120N	140N	170N	190N	220N	240N	300N	400N	800N
EGT	700℃	700℃	700℃	<b>700℃</b>	700℃	700℃	700℃	700℃	700°C	700℃	700℃
Consumption	200g/min	270g/min	350g/min	380g/min	480g/min	550g/min	660g/min	685g/min	820g/min	1000g/min	1850g/min
Fuel	kero or	kero or	kero or	kero or	kero or	kero or	kero or	kero or	kero or	kero or	kero or
	diesel	diesel	diesel	diesel	diesel	diesel	diesel	diesel	diesel	diesel	diesel
Lubrication	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero	5% kero
	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel	3% diesel
Maintenance	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours	25Hours
Interval											