

IP68 LEGACY COMPASS

For boats with an old Simrad–Robertson autopilot, this compass is a special product to keep the pilot fully operational. The compass originally supplied may have failed or been damaged and, because they are no longer made by Simrad, Autonnic have used the original Fluxgate sensor used in the RC35 heading sensor and designed electronics to create the signals needed by the autopilot.



ABSOLUTE MAXIMUM RATINGS

PARAMETER	DESCRIPTION	NOTES	CONDITIONS	VALUE	UNIT
Θ_{STOR}	Storage Temp Range			-20 to +100	°C
Θ_{OPER}	Operating Temp Range		Vcc = 12v	-20 to +60	°C
	Shock Resistance		Single impact	±40	G
	Vibration Resistance		60Hz, 10 Minutes	±11	G
V _{CC}	Supply Voltage		At 40degC	28	Vdc
P _{MAX}	Operating Pressure Range	2		-0.5 to +2	Bar

PERFORMANCE

PARAMETER	DESCRIPTION	NOTES	CONDITIONS	MIN	TYP	MAX	UNIT
t _{PU}	Time to valid output		After power-on			4	s
ERR _{OP}	Output error	3	heel of 0°		0.3	1	Degrees
		4	heel of 35°			2	
	Output Change With Tilt	4	heel of 45°			4	

Notes

- 2 day immersion at 1.2m
- Can be shipped at 0Bar
- After auto-calibration with original error not more than 20°
- In addition to error at 0 degrees of tilt

ORDER INFORMATION

PART	DESCRIPTION	SHIPPING WEIGHT
A5035	Legacy Compass	120g

ELECTRICAL CHARACTERISTICS AT 20°C

PARAMETER	DESCRIPTION	NOTES	MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage		10	12	18	Vdc
I _{CC}	Average Current consumption			30		mA
I _{pk}	Peak Current			60		mA
Duty cycle		At 45deg heading		50		%
Period		At 45deg heading		15		ms

INSTALLATION

CONNECTIONS

2 wires—polarity not important

