



PC-1000C3 Antenna Coupler in 316L Stainless Steel Enclosure

Part Number: SLF20050/C3/SS

SPECIFICATION SHEET

5055 Belmont, Beaumont, TX 77707
 Phone +409.842.1717 Fax +409.842.2987
 sales@southernavionics.com



PC-1000C3 Antenna Coupler

Application:

The PC-1000C3 Antenna Coupler is designed to match 200 - 1500pF / 2 - 25 Ohms antenna load in the 190 - 650 kHz frequency range, RF input power is 200 Watts continuous, 500 Watts peak.

The PC-1000C3 ATU comes standard with an IP66 Breather drain.

The coupler has an auto-tune feature which automatically maintains system tuning during changing environmental conditions.

The unit is housed in an IP66-Certified aluminum enclosure for all weather operation. Operating power is supplied by SAC transmitter or optional 100-264VAC internal power supply.

FEATURE	SPECIFICATION
Input Impedance	50 Ohms
Load Impedance	2-30 Ohms resistance 200-1500pF capacitance
Frequency	190-625khz with a 200-1500pF load
Power Input	Up to 500W, 200W continuous
Tuning	Tuning is achieved with a large coil with coarse taps and fine taps and a rotatable shorted ring. The coarse taps are selected by jumper while the fine taps are selected by a jumper and wires across a terminal block behind a removable panel. The auto-tune system drives the shorted ring for exact tuning
Tuning Range	22 uH to 3.6 mH
Metering	Antenna current, Forward and Reflected Watts and tune measurements displayed on a single meter via a twelve position switch
Lightning Protection	A lightning gap at the antenna terminal and a special passive circuit each protect the transmitter's final amplifiers from lightning transients
Access	Removable front access door via stainless steel/quick release latches
Operating Conditions	-50°C-+70°C; 0 - 99% relative humidity (Non-Condensing) high salinity for offshore; IP66 certified
Storage Temperature	-50°C - +70°C; 0 - 99% Relative Humidity (Non-Condensing)
Height	23 in. (58cm)
Length	17 in. (42cm)
Width	21 in. (54cm)
Weight	42 lbs. (19kg)
Power Requirements	DC control voltage (SAC transmitter)
Optional Equipment	-100-264VAC Internal Power Supply -Upgrade to Auto Resistive matching -Solar Shield -100 Watt Heater -Antenna Simulator -Antenna Analyzer
Connection	Type-N female

NDB Transmitter

ATU

Antenna

