

SC 40 A, AG and IG VERSION

SVP drifter



Drifting Buoys



These drifters are used mostly offshore in order to monitor the current at sea surface for oceanographic studies and also the oil spill trajectories. The drifters can be fitted with holey socks drogue and are, by this way, linked to a particular mass of water. The drag ratio between surface buoy and the drogue validates the good function of current follower. If no drogue is mounted, the drifter is affected by the surface current.

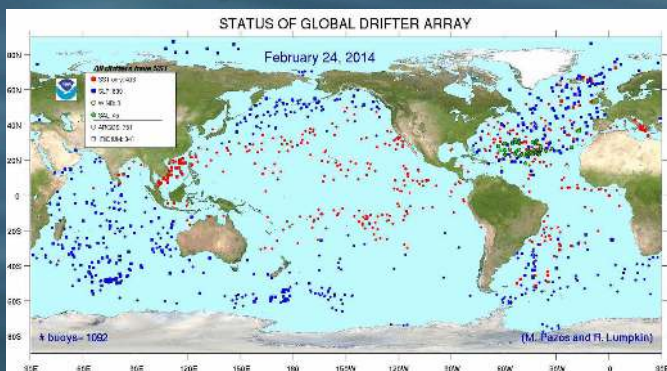
The **SC 40** buoy is a sphere of 400 mm diameter, molded in plastic at high pressure. The SC40 is with low radar echo in order to reduce the risk to be picked up by fishermen and is fitted with lashing rings.

nke Instrumentation proposes 3 models:

- **SC 40 A** : data are collected by Argos satellites, position is achieved by Doppler effect computed by CLS
- **SC 40 AG** : data are collected by Argos satellites, position is acquire by a GPS receiver and transmitted via Argos
- **SC 40 IG** : data are collected by Iridium satellites, position is acquire by a GPS receiver and transmitted via Iridium.

Main features

- 3 models
 - GPS receiver and ARGOS transmission
 - ARGOS satellite for data collection and localization
 - GPS receiver with Iridium transmission
- Very simple to use
- In option "holey socks drogue" and various length of line
- Easy BT connection for parameters setting
- Lithium and alkaline battery solutions .
- 40 cm diameter spherical buoy



nke
INSTRUMENTATION

www.nke-instrumentation.com





SC 40 A, AG and IG VERSION

Ocean drifter

Model	SC40 A	SC 40 AG	SC 40 IG
Main	ARGOS 2	ARGOS & GPS	IRIDIUM & GPS
Transmitter	Nke-instrumentation PTT: APMT certified by CNES and CLS		9602 modem
RF features	33 dBm +1/ -2 dB , high stability TCXO		
Antenna	Quarter wave whip	Quarter wave whip and GPS patch	Helicoidal for Iridium Patch for GPS
GPS & position			
Receiver		12 channels , code CA	
Acquisition period		From 5 minutes to 120 minutes	From 5 minutes to 10 days
Resolution of position	1/1000°	1/1000°	2/10000°
Accuracy	< 1000 meters in more than 95% of the case	Typical < 10 meters	
Transmission			
Period	From 50 seconds to 200 seconds	From 90 seconds to 200 seconds	From 5 minutes to 10 days
Messages		12 fixes queue	17 fixes in one SBD
Measurements			
Sea surface temperature			
Accuracy	+/-0.1°C with calibration		
Range	-2°C +35°C		
Temperature sensor position	-15 cm		
Drogue indicator	Submergence switch		
Drogue	In compliance with DBCP drag ratio >40		
Drogue (option)	Holey socks 0.8 m length 6 meter,		
Line (option)	12.5 meters including elastic section other length on request		
Battery & autonomy			
Technology	Lithium or alkaline according request		
Capacity	50 Ah		
Autonomy	According parameters setting , typically > 6 months		
Environmental features			
Operating temperature	-20°C to +50°C		
Storage temperature	-10°C to +25°C for optimum battery shelf life		
Water tightness	10 dbars		
Mechanical features			
Shape	Spherical drifter		
Dimensions and weight	Diameter 390 mm volume 31 liters 10 Kg		
Material ad color	Injected polypropylene grey		
Mooring	8 lashing rings diameter 10 mm		



nke
INSTRUMENTATION



Sales Department
Tel : +33 (0)2 97 85 64 18 - Fax : +33 (0)2 97 36 55 17
info.instrumentation@nke.fr
www.nke-instrumentation.com

