SOLARIS

NT1D Series

Handheld Capnography/Pulse Oximetry Monitor

Compact, Reliable and High Performance

Features:

◆ Durable, Compact, and Lightweight

◆ Capnograph with Trends

◆ SpO2 with Waveforms

◆ Data Storage for up to 100 Patients; 72-hour for each patient
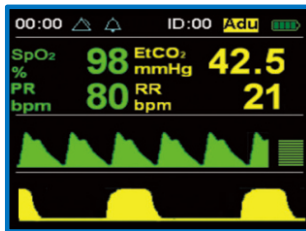
◆ Suitable for adult and pediatric patients

EtCO2

PR

Portable
Compact & Ergonomic Design

21st Century CO2 Technology
CAPNOSTAT® CO2 sensor and
LoFlo Sidestream System

All-in-One Display
Data + Waveform + Trend

Data Management
PC Software with Wireless Data Transmission
Data Analysis and Report Printing

A Variety of Applications
Emergency Rescue, Intensive Care
During Surgery, Resuscitation and
Patient Transportation

Patient Types
Adult and Pedicatric Patients

Usage Environment

◆ Emergency Medical Services (EMS) in the field or during transport

◆ Outpatient or Ambulatory Surgery centers; special procedures area
   (e.g. cardiac catheterization lab, endoscopy)

◆ General medical/surgical hospital ward

◆ ICU, Emergency Department

◆ Hospital-based or free-standing sleep laboratory
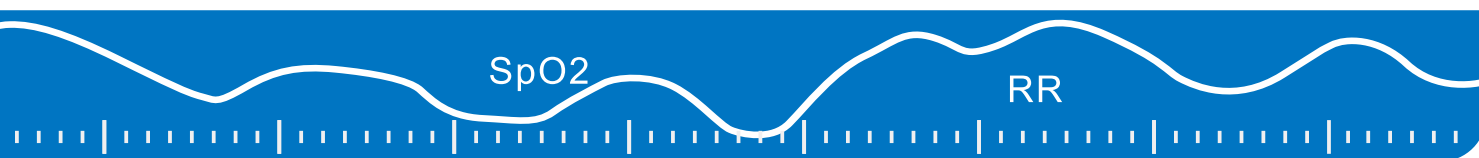
Clinical Applications

◆ Airway management for all intubated patients.

◆ Procedural or conscious sedation-adequacy of ventilation.

◆ Patient safety during patient-controlled analgesia (PCA) or continuous narcotic administration.

◆ Cardiopulmonary resuscitation--confirm endotracheal tube placement, determine
   effectiveness of chest compressions (CPR) and detect Return of Spontaneous Circulation (ROSC).

◆ Sleep studies

Why Capnography is A Valuable Tool

◆ **For EMS Transport:**

   Capnography is a valuable tool during emergency transport of both intubated and non-intubated
   patients for proper assessment of the patient's ventilatory status.

◆ **For Conscious Sedation:**

   When performing procedural sedation, ensuring patient safety and adequate ventilation is essential.

◆ **For Cardiopulmonary Resuscitation:**

   Capnography is a valuable tool during cardiopulmonary resuscitation (CPR) of intubated patients.

◆ **For Pain Management:**

   The use of capnography is becoming more widespread for patients receiving opiates for acute pain
   management.

◆ **For Sleep Laboratories:**

   When conducting sleep studies, it is important to accurately and consistently measure exhaled CO_2
   levels in order to reliably assess the quality of ventilation during sleep.

Available SpO2 and CO2 Sensors

Adult/Pediatric Finger

Disposable Cannulas

Mainstream CO2

Sidestream CO2

Specifications

SpO$_2$:

Measurement Range:	0 ~ 100%
Accuracy:	+2% during 70%~100%
	0%~69% unspecified

Pulse Rate:

Measurement Range:	30 bpm ~ 250 bpm
Accuracy:	1 bpm or $\pm$2%
	whichever is greater

EtCO$_2$:

Measurement Range:	0~150mmHg	
Resolution:	0.1mmHg	(0~69)mmHg
	0.25mmHg	(70~150)mmHg
Accuracy:	$\pm$2MmHg	(0~40)mmHg
	$\pm$5%	(41~70)mmHg
	$\pm$8%	(71~100)mmHg
	$\pm$10%	(101~150)mmHg

Respiration Rate:

Measurement Range:	0~150bpm
Accuracy:	$\pm$1bpm

Alarm:

Three levels of visual, audio alarms

Battery type: Lithium Polymer Battery Pack

Internal power supply: 3.7~4.2V/4400mhA

II type power adapter : Input AC100-240V
50/60Hz, Output DC 5V.
Battery Capacity: $\geqslant$12 hours (SpO2 only)
Battery Capacity: $\geqslant$ 5 hours (SpO2 + CO2)

Environment:
Operating Temperature: 0°C~50°C
　　　　　Humidity: $\leqslant$95%
　　　　　Altitude: -390m~5,000m
Transport/Storage Temperature: -20°C~70°C
　　　　　Humidity: $\leqslant$95%

Physical Characteristics:
Dimensions: 　　73mm (W) x127mm (H) x 23mm (D)
Maximum Weight: 500g

Compliance:
1. SpO$_2$: ISO 80601-2-61:2011(E)
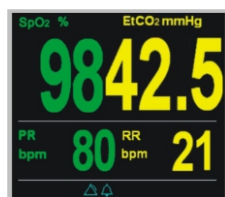2. Safety Standards:
　 IEC60601-1：2005+ CORR. 1：2006+CORR.
　 2：2007+AMI:2012(or IEC 60601-1:2012 reprint)
3. Alarm: IEC60601-1-8: 2005
4. EMC: EN 60601-1-2: 2007, Group 1 Class A
5. Environment : WEEE (2002/96/EC)

Display Options

Large Font/Digits

Dural Waveforms

Historical Trend

Trend Chart

Configurations

NT1D-B	Handheld Mainstream CO2 Monitor
NT1D-C	Handheld Sidestream CO2 Monitor
NT1D-D	Handheld SpO2 & Mainstream CO2 Monitor
NT1D-E	Handheld SpO2 & Sidestream CO2 Monitor

Solaris Medical Technology, Inc.