SC6000

Industrial Controller

DATALOGIC
Your Life. Our Enthusiasm™

Unattended Scanning Systems

General Description

The SC6000 is the ultimate Datalogic industrial controller specifically designed for omni-directional multi-side reading tunnels. It offers all the necessary tools to make the phases of System Installation, Setup, Testing and Maintenance of an omni-directional reading tunnel easy and quick.

The SC6000 key functions are:

- Bus Controller: cluster management and Host interface of a multi-side reading tunnel based on a Lonworks bus.
- DARP™ (Datalogic Automatic Replacement Procedure) function: automatic procedure for scanner and bus controller replacement.
- Simple and effective diagnostic indications, based on LEDs and a display, offer all the necessary information to the maintenance operator.
- Easy remotization of all the reading station information, thanks to built-in Ethernet and field bus connectivity, as well as a special 9-pin connector for Modem connection.

The SC6000 is based on a robust alloy case divided in two parts: the upper part is composed of a display, keypad and LEDs. The lower part contains the mother board, removable Compact-Flash memory, field bus boards and connector panel.

No Hard Disk is used in the SC6000. A Compact-Flash memory increases the overall product reliability.

The SC6000 is compatible with the 6000 and 8000 family scanners (bus versions).

Every scanner on the reading station can be operated using the GENIUS™ software with the SC6000, from the SW download phase to fine scanner tuning. GENIUS™ can be used through a simple RS232 connection with the SC6000 on site, or through a remote connection with Ethernet via Socket. SC6000 also offers a special 9-pin port for a standard Modem connection.

Features

- Industrial controller for multi-side reading stations
- DARP™ (Datalogic Automatic Replacement Procedure) function
- High performing CPU
- GENIUS™ configuration program
- Display and 6-key keypad for diagnostics/statistics
- Robust alloy case
- Built-in Ethernet, Profibus and Devicenet connectivity
- Modem connection

Applications

- Sorting for:
  - Transportation & Logistics (Express Couriers, Postal applications)
  - Distribution (large Logistic / Distribution Centers)
  - Baggage Handling Systems

SC6000 Industrial Controller

Technical Specifications

ELECTRICAL CHARACTERISTICS

POWER SUPPLY	10 to 30 VDC
CONSUMPTION	< 10 W

MECHANICAL CHARACTERISTICS

DIMENSIONS	See diagram
WEIGHT	3.3 Kg (7.26 lbs)

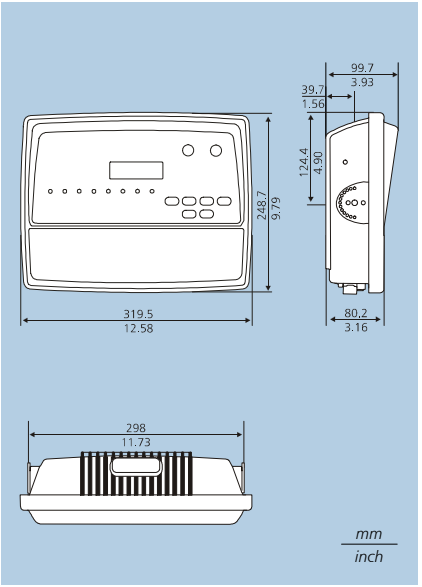
PERFORMANCE

RAM MEMORY	16 MB	
STORAGE MEMORY	2MB FLASH; 32 MB COMPACT FLASH	
DISPLAY	4 lines x 20 characters	
KEYPAD	6 keys	
STATUS LEDS	10 LEDs (POWER, TX/RX DATA, ETHERNET, PS, PS AUX, TACH, NETWORK, SCANNER, CONTROLLER)	
MODELS/INTERFACES	Main: RS232/RS485F isolated Aux: RS232 Modem: RS232	
AVAILABLE MODELS	SC6000-1200	Built-in Ethernet
	SC6000-1215	Ethernet and DeviceNet
	SC6000-1211	Ethernet and Profibus
	SC6000-1230	Ethernet and Ethernet
I/O SIGNALS	3 inputs/6 outputs: isolated	
SENSOR SIGNALS	3 inputs (TACH, PS, PS AUX): isolated	
RELAY SIGNALS	3 outputs	

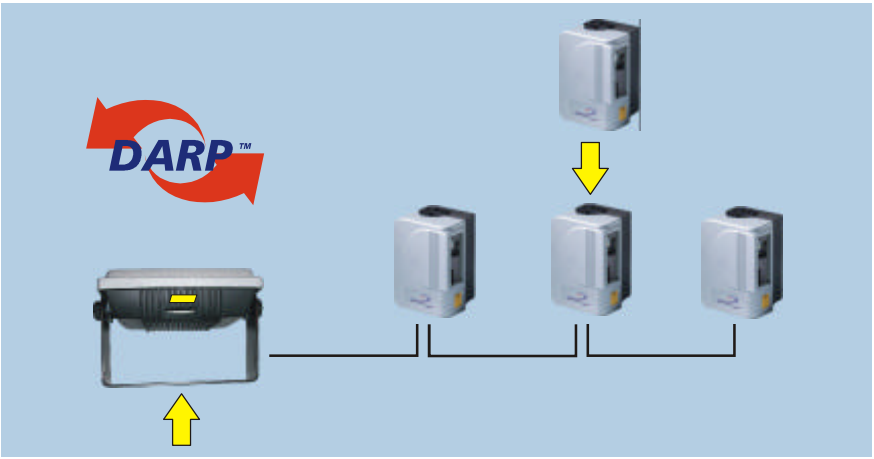
ENVIRONMENT

OPERATING TEMPERATURE	0 to 50° C
STORAGE TEMPERATURE	-20 to 70° C
HUMIDITY	0 to 90% non condensing

Dimensions



DARP™ Procedure



DARP™ is the most important benefit offered by the SC6000 controller. As a result of the DARP™ procedure, a damaged scanner can be automatically replaced by simply substituting it. The complete scanner configuration, including both SW and HW adjustments, is automatically transferred to the new scanner through the SC6000, cloning the previous one. Moreover, a damaged SC6000 controller can be easily replaced by simply removing the C-Flash and placing it in the new one. In this way, the reading station configuration, stored in the Compact-Flash memory, is restored and the station becomes fully operative again.

Datalogic Communication Division
Printed in Italy January 2005
9C0005448