

integra Daedalus

sensing your production



Overview

SENSAP™ INTEGRA Daedalus edge controller is an automation unit that focuses on **monitoring production floor**. Through the management of sensors that are integrated into production machines, automatically collects and analysis production data. It provides operators with accurate information about machine usage and the progress of work at hand in **real time**.

SENSAP™ INTEGRA Daedalus eliminates the need for inaccurate, erroneous and time-consuming manual data entry on paper, touchscreens, or mobile terminals. It handles the sum of the logging process thus allowing operators to focus on their work.



Key Benefits

- **Automatic production data collection, including speed and number of units produced**
- **Visualization of production phase**
- **Uses innovative Internet of Things (IoT) technology**
- **Provides basic analytics such as time to completion, uptime/downtime, machine efficiency and more.**
- **Offers data export in Excel files**
- **Easy and Short installation in almost any production machine**
- **Can be combined with SENSAP™ EDGE server to form a complete monitoring platform**

SENSAP™ INTEGRA Daedalus offers work visualization through its HMI, presenting well-structured information (data fusion, analytics) as well as speed and production rate dashboards, thus being a valuable aide to operators and supervisors.

Combined with **SENSAP™ EDGE** server, it creates a complete and automated production monitoring platform, that also allows storing and exporting production data for further processing, i.e. to calculate machine and process KPIs, and compare actual production data against pre-production cost estimation.

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Specifications

Processor	Intel Quark x1020
Firmware	SENSAP™ Integra Daedalus v5.3.5.1
Application Software	SENSAP™ Integra Daedalus v4.2
User Interface	Built-In WEB Server with customizable Pages
Hardware clock (real-time)	Yes
Digital I/O	<ul style="list-style-type: none"> • 2x Optical Sensors • 2x Encoders (High Speed Counting) 100 KHz • 1x Push-Button with 2x Logical Functions • 3x Stack-Light (RED, YELLOW, GREEN) • 2x Batch/Spoilage Rejections
Analog inputs	2x Temperature/Humidity with 10-bit resolution
Serial interfaces	2x RS232/422/485 Optional (switchable)
USB interfaces	1x USB Type A Optional
Network interfaces	1x 10/100 Ethernet RJ45
Network Protocols	Modbus RTU, OPC UA and MQTT
EMC Compliance	EN 55022:2010+AC:2011, EN 55024:2010, EN 60950-1:2006
RoHS & Protection	<ul style="list-style-type: none"> • EU Directive 2002/95/EC • IEC IP64 / -20degC to +50degC
BARCODE Equipment	<ul style="list-style-type: none"> • 1x BARCODE Scanner for 1D Symbolologies • Decoding Capabilities: 1D and GS1 DataBar symbolologies • Scan Pattern: Single line scan, 100lines/sec @ 30deg horizontal • Print Contrast: 10% reflectance difference
Supply voltage	120/230 V AC, 50 Hz
Dimensions & weight	400 x 230 x 310 mm ³ / Kg

Key Functions

- ❖ Incorporates a printing label server.
- ❖ Production Barcode Order Historian
- ❖ Maintenance data of the production machine
- ❖ Machine KPI's
 - Production Rate Chart
 - Consumption Rate Chart
 - Current Production
 - Capacity Utilization
 - Machine Availability
 - Up Time
 - Down Time
 - Set Up Time
 - Idle Time
- ❖ Batch Count
- ❖ Stop Event Duration

The company SENSAP Instituted in 2002, in Athens, Greece, SENSAP Microsystems SA specializes in the development and distribution of equipment, software, and consumables for the printing and packaging industry, as well as logistics enterprises. Backed by the company's broad visibility in the logistics and manufacturing sectors, SENSAP Swiss AG, headquartered in Zurich, Switzerland, develops and manufactures enhanced autoID-centric MIS software, Quality & Performance Inspection hardware, and Warehouse Automation & Traceability systems.