



The **Smart Production Edge Control Demonstration Platform (SPEC-DP)** line is a series of easily deployable smart edge control and computing systems designed by emocean GmbH. It is an ideal testbed for quickly and easily demonstrating and evaluating the advantages of digitalizing and empowering production systems through fast data analysis, local machine learning and on-premise cloud applications.

SPEC-DP1 Features & Capabilities

SPEC-DP1 comes equipped with an indigo enabled Data Spring for collecting and collating information from various sources and a Data Lake with a preinstalled local Elasticsearch instance for on-premise analytics. It is equipped with a set of terminals for quickly connecting existing sensors, PLC and I/O access via Modbus and the ability to monitor Profibus traffic. It is easily deployable in brownfield installations to analyze production and quality data.

The SPEC-DP1 delivery scope includes a convertible laptop / tablet for system configuration, data access or visualization purposes. Complete system functionality and configurability is also remotely available from your network.

Safety Note

This Demonstration Platform is **not** suitable for placing on the market. It is released exclusively for demonstration and evaluation purposes. This unit has **not** been approved for permanent use and / or deployment in a productive environment. It should only be operated by qualified personnel.

MTBF: not rated



Processing

Data Spring

Processor	Cortex-A72 (ARM v8), 4-core, 64bit SoC @ 1.5GHz
RAM	8GB DDR4 RAM
Storage	32GB SDHC (no industrial rating)

Data Lake

Processor	Intel Core i5-8250U, 4-Core 1,6 GHz
RAM	16 GB DDR4 RAM
Storage	1 TB SATA III SSD

HMI Terminal

Processor	Intel Pentium N5030
RAM	4 GB DDR4 RAM
Storage	128 GB M.2 PCIe SSD

Power Supply

Voltage	230V AC @ 50Hz
Connection	CEE 7/4 Type F ("Schuko")

Interfaces

Analog Input	4 channels 0 – 10 VDC
Digital Input	8 channels 24 VDC
Modbus	TCP via RJ45
Profibus	Monitoring (passive, RS485)
USB	4 ports via RJ45 Extender

Housing

Body Material	Steel Chassis w. Safety Glass Front Door
Dimensions (W x H x D)	appr. 57cm x 51cm x 45cm

Operating Environment

Operating temperature	0° C to 40° C
Storage temperature	-20° C to 60° C
Relative humidity	5% to 95% (not condensing)