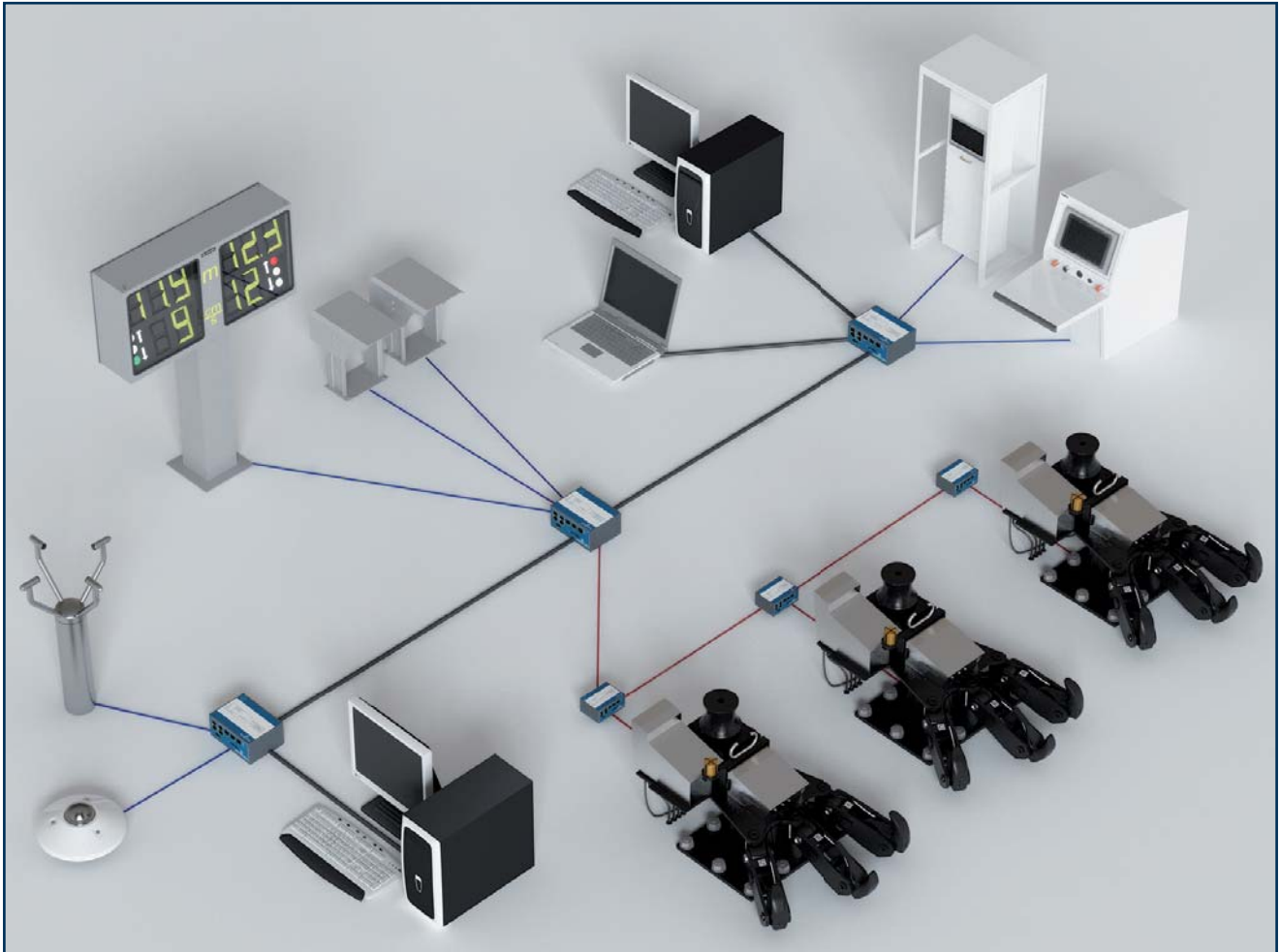


LMS4 System LAN MICRO SERVER SYSTEM



INTRODUCTION

The LMS4 system is a combination of a number of LMS4-C and LMS4-T units. The LMS4C & T are compact yet powerful interface units with both processing power and storage capacity.

The design makes them perfect as a platform for building integrated systems.

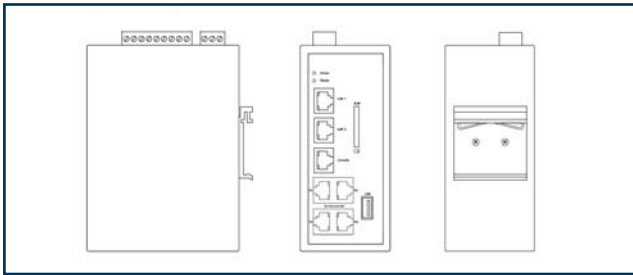
The LMS4 units facilitate for reliable communication between, for example, lasers, large displays, quick release hooks and weather sensors. By utilizing the embedded software, the LMS4 modules can bring bespoke functionality into the system, making them independent of a master PC.

The storage facility of the LMS4C modules allows them to store data (PCMCIA and normal memory) which can function as back up for the master PC, in case the PC should stop functioning.

The system combines Ethernet and RS485 technology to create a robust and flexible system, with almost endless possibilities. It is a decentralized system, where the traditional master PC is changed to a thin client PC acting as a viewer, this means that the LMS4 system can continue to function even if other parts of the system are powered off or malfunctioning.



SPECIFICATION AND PERFORMANCE DATA



LMS4-C

The LMS4-C is a data acquisition and control unit. It reads data using one of the 4 serial inputs, 4 digital inputs, or from other LMS4-C units.

The LMS4-C makes it possible to build robust decentralized systems, therefore dramatically increasing safety, should other subsystems fail.

The LMS4-C can be configured to log critical data locally, as well as being able to show data anywhere that is needed.

Power Requirements

Input Voltage 12 to 48 VDC
Power Consumption 7 watts

Environmental

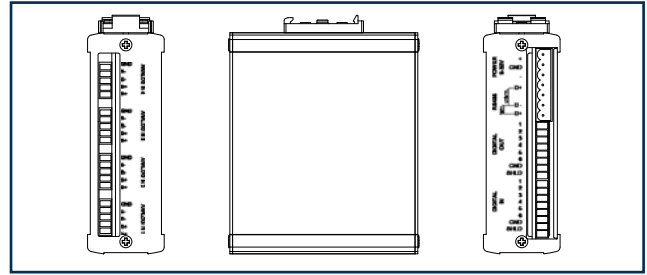
Operating temperature -10 to 60°C
Storage temperature -20 to 80°C

Dimensions

Weight 430 g
Size 60x137x100 mm

Characteristics

Serial ports	4 x RS232/RS422/RS485
DI/DO	4 x DI, 4 x DO
LAN	2 x RJ45



LMS4-T

The LMS4-T supplements the LMS4-C, offering versatile in- and output options, primarily being used for I/O and analogue inputs. Due to the nature of RS485 technology it allows for cable lengths of up to 1.2 kilometres. Multiple LMS4-T units can utilize the same cable for communication subsequently re-ducing installation costs and complexity.

Power Requirements

Input Voltage 9 to 32 VDC
Power Consumption 2 watts

Environmental

Operating temperature -10 to 60°C
Storage temperature -20 to 80°C

Dimensions

Weight 292 g
Size 25x120x100 mm

Characteristics

Channels	4	
Resolution	16 bit	
Internal reference voltage	5 Volt, $\pm 0.2\%$	
Weighing cell	Input signal	
	- Full scale	0-78.125 mVolt
	- Max	-0.3 Volt to +6.0 Volt
	Input resistance	> 10Mohm
	Internal gain	64
	Excitation switch on	25 uSec before measuring starts
	Excitation switch off	When measuring is finished
0-5V	Excitation voltage	Buffered internal reference voltage
	Excitation max. load	50 mA or min. 100 ohm
	Absolute max input	-0.3 Volt to +6.0 Volt
0-20mA	Input resistance	> 10Mohm
	Internal gain	1
	Absolute max input	-1.25 mA to +25mA
Digital output	Relay	6 pcs. N/O - N/C (Setting inside)
	Digital Input	TTL Level
Cable length	Inputs	Typical max. 25 m *
	Excitation voltage	Typical max. 25 m **

* Depending on: Source impedance, environmental noise and cable type

** Depending on: Weighing Cell impedance, environmental noise and cable type

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