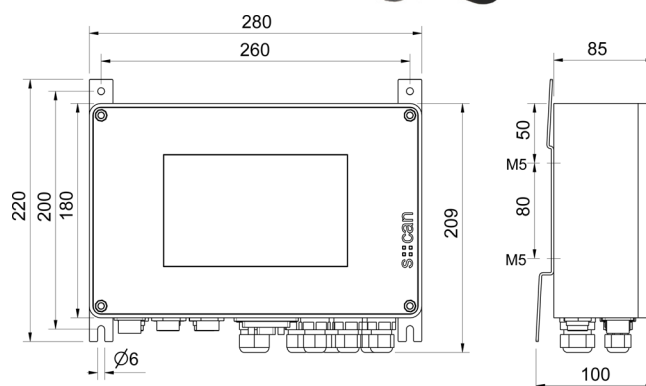


con::cube

- s::can high-end IoT (Internet of Things) terminal based on an industrial PC, IP65
- wide screen color graphical display (7") and touch screen
- highly intuitive use, informative visualization & easy operation: time series, optical spectra and all events in clear text
- sensor and station management of up to 64 parameters: automatic cleaning, data logging, sample & calibration incl. history and multipoint calib, sensor function check; user management, easy data transfer via USB-stick
- low power operation with less than 3 watt (@ 15 min. measuring interval): wide range AC and DC variants available, both variants can be battery powered with 12VDC, for example charged by solar panels (12V/60Ah battery => 10 days)
- IoT (Internet of Things) and M2M (Machine to Machine) connectivity: 100Mb/s Ethernet, 300 Mb/s Wi-Fi 802.11a/b/g/n and optional worldwide WCDMA 3G interface; remote control (http); data transfer into "Cloud" via FTP, SSH and TML
- process interface to SCADA via: Modbus RTU/TCP, SDI-12, Profibus DP, analog 0/4-20mA and relay outputs (state)
- integration of third party sensors via: analog 0/4-20 mA and digital (solid state) inputs, Modbus RTU/TCP
- easily extendable & all moni::tool features available: 8 slots to customize I/Os, moni::tool software pre-installed, additional software features like online data validation and event detection optional



standard accessories

part number	article name
S-11-04-moni	moni::tool - Basic s::can monitoring station software for 4 parameters
S-11-08-moni	
D-315-out-relay	4 digital outputs (output module), provides 4 configurable relay contacts 1A
D-303-LX	Linux Application Licence (obligatory to D-315)

technical specification

integration of	1 x s::can spectrometer probe and 4 x s::can sensors or ISE probes	grounding	<0.5 Ohm to process media
display	VGA color-display 7" TFT (optional)		
function indicator	4 x LED		
operation via	integrated touch-screen (optional) Ethernet - Browser or VNC WIFI - Browser or VNC USB (keyboard, mouse) 3G modem (optional)	power consumption (typical)	1.5 W (in sleep mode) 10 W (no analogue ports) 30 W (fully equipped)
operating system	Linux	power consumption (max.)	20 W (no analogue ports) 60 W (fully equipped)
main memory	1 GB RAM	analog outputs	up to 8x2 x 0/4-20 mA
onboard memory	4 GB	analog inputs	up to 8x2 x 0/4-20 mA
interface to s::can spectrometric probes	1 x MIL, RS485	outputs for automatic cleaning	2
interface to s::can sensors	4 x sys plug, RS485	digital inputs	up to 7x2 x 14 VDC
interface to third party sensors	Modbus RTU/TCP, analog inputs	relay outputs	4 x 2A (500 VAC)
network connection	802.11n a/b/g WIFI 300Mb/s Ethernet LAN worldwide 3G HSPA	system error relay	1 x 2A (500 VAC)
interface to SCADA	Modbus RTU/TCP, Profibus DP (optional), SDI-12 (optional), analog outputs	dimensions (width x height x depth)	280 x 209 x 85 mm
data transfer	via SSH, FTP, TML (XML) and USB stick	housing material	aluminium alloy, powder coated
remote control	via http	weight (min.)	4 kg
power supply	D-315-230: 100 ... 240 VAC D-315-024: 10 ... 36 VDC	operating temperature	-20 ... 50 °C
		storage temperature	-20 ... 60 °C
		storage humidity	5 ... 90 %
		ingress protection class	IP65
		conformity - EMC	EN 61326-1
		conformity - safety	EN 61010-1 UL 61010-1:2004 R10.08 CAN/CSA-C22.2 NO. 61010-1-04+G11 (R2009)
		part number 24V	D-315-024
		part number 230V	D-315-230

recommended accessories

part number	article name
C-31-eu	Optional 2 m power cable
D-315-3GLX	worldwide 3D internet connection via Quad-band HSPA (up to 5.7 Mbps/21 Mbps)
C-31-us	Optional 2 m power cable
D-315-in-mA	2 analogue inputs (input module), provides 2 analogue inputs (4-20mA) for integration of 3rd party readings
D-315-in-relay	2 digital inputs (input module), provides 2 digital IN (5-24V) for integration of 3rd party readings
D-315-out-mA	2 analogue outputs (output module), provides data transfer to PLC systems
D-315-out-Pro-fibus	provides Profibus DPVO for data transfer to PLC systems
D-315-out-SDI12	SDI 12 (output module), provides SDI 12 for data transfer to PLC systems
F-51	weather shield for s::can terminals
D-315-anten-na-pro	External, high range antenna option for con::cube, incl. 10 m extension cable
D-315-anten-na-plug	Internal antenna adapter cable and connector, option for con::cube
S-14-08-vali	vali::tool - s::can data validation software
S-14-24-vali	
S-15-08-ana	ana::tool - s::can event detection software
S-15-24-ana	
S-20-MVA	Complete license of all moni::tool modules, vali::tool and ana::tool