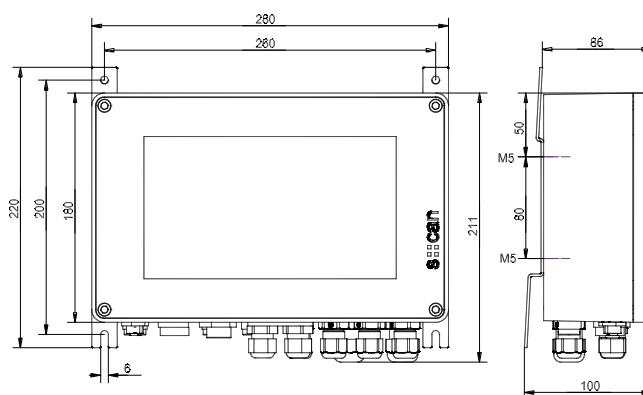


con::cube V3

- s::can high-end IoT (Internet of Things) terminal based on an industrial PC, IP65
- widescreen color graphical display (9") 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 including history and multipoint calibration, sensor function check, user management and easy data transfer via USB-stick
- low power operation with less than 3 watts (@ 15 min. measuring interval): wide range AC and DC variants available
- IoT (Internet of Things) and M2M (Machine to Machine) connectivity: 1000 Mb/s Ethernet, 300 Mb/s WLAN and optional worldwide LTE, HSPH+, GSM 4G interface, remote control (https) and data transfer into "Cloud" via (S)FTP, SSH und RSYNC
- process interface to SCADA via Modbus RTU/TCP, SDI-12, Profibus DP, analog 0/4-20 mA 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
D-303-LX	Linux Application Licence (obligatory to D-330)
D-315-out-relay	4 digital outputs (output module), provides 4 configurable relay contacts 1A
D-315-out-SDI12	SDI 12 (output module), provides SDI 12 for data transfer to PLC systems
D-315-out-mA	2 analogue outputs (output module), provides data transfer to PLC systems
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-profi-bus	provides Profibus DPV0 for data transfer to PLC systems

technical specification

integration of	1 x s::can spectrometer probe and 4 x s::can sensors or ISE probes
display	color-display 9" TFT
function indicator	4 x LED
operation via	integrated touch-screen (optional) Ethernet - Browser or VNC WiFi - Browser or VNC USB (keyboard, mouse) 4G modem (optional)
operating system	Linux
main memory	2 GB RAM
onboard memory	16 GB
interface to s::can spectrometric probes	M12 RSTS 8Y (IP67), RS485, Ethernet
interface to s::can sensors	4 x sys plug, RS485
interface to third party sensors	Modbus RTU/TCP, analog inputs
network connection	802.11n a/b/g WiFi 300Mb/s Ethernet LAN 1 Gb/s worldwide 4G (optional)
interface to SCADA	Modbus RTU/TCP, Profibus DP (optional), SDI-12 (optional), analog outputs
data transfer	via SSH, FTP, SFTP, RSYNC and USB stick
remote control	via http, https

power supply	D-330-230: 100 ... 240 VAC D-330-024: 10 ... 36 VDC
power consumption (typical)	1.5 W (in sleep mode) 10 W (no analogue ports) 30 W (fully equipped)
power consumption (max.)	20 W (no analogue ports) 60 W (fully equipped)
grounding	<0.5 Ohm to process media
analog outputs	up to 8x2 x 0/4-20 mA
analog inputs	up to 8x2 x 0/4-20 mA
outputs for automatic cleaning	2
digital inputs	up to 8x2 x 14 VDC
relay outputs	4 x 2A (500 VAC)
system error relay	1 x 2A (500 VAC)
dimensions (width x height x depth)	280 x 209 x 85 mm
housing material	aluminium alloy, powder coated
weight (min.)	4 kg
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	IEC/EN/UL/CSA 61010-1 IEC/EN/UL/CSA 61010-2-201 IEC/EN 60529
part number 24V	D-330-024
part number 230V	D-330-230

recommended accessories

part number	article name
C-31-eu	Optional 2 m power cable
C-31-us	Optional 2 m power cable
D-330-anten-na-pro	External, high range antenna option for con::cube, incl. 3 m extension cable
D-330-ANTEN-NA-PLUG	Internal antenna adapter cable and connector, option for con::cube
D-330-ANTEN-NA-CABLE	10 m antenna extension cable
S-11-autosampler	moni::tool - auto sampler feature
S-11-basic-PLC	moni::tool - basic PLC functionality (time control, pulsing, custom bits)
S-11-camera	moni::tool - camera input
S-11-data-export	moni::tool - automatic data transfer (via SSH, FTP, TML)
S-11-free-formula	moni::tool - configureable mathematic formula
S-11-SMS	moni::tool - SMS notification
S-14-vali	vali::tool - s::can data validation software
S-15-ana	ana::tool - s::can event detection software
F-51	weather shield for s::can terminals
S-20-MVA	Complete license of all moni::tool modules, vali::tool and ana::tool
D-330-4GLX	Worldwide 4G internet connection via 7-band HSPA+ (21 Mbps/5.7 Mbps)