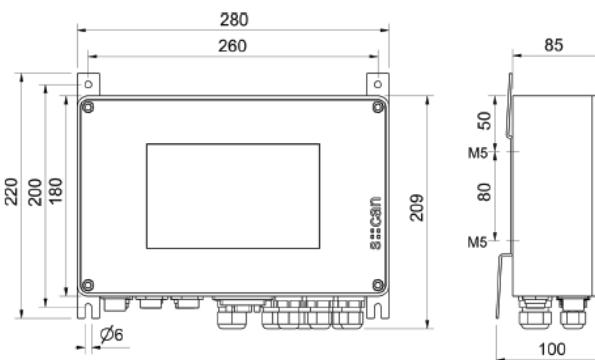# con::cube

- latest generation of s::can terminal
- high-peformance, power efficient industrial PC based on newest Intel Atom technology and 4 GB onboard memory
- wide screen color graphical display (7") and touch screen
- highly intuitive use, touch-and-feel like a cell phone; iconographic drag-and-drop operation on several levels
- plug & play operation of 4 s::can probes standard; unlimited number of probes optional. Support for two external cleaning valves
- low power operation with less than 3 watt (@ 15 minutes measuring interval) for solar panel applications
- worldwide network connectivity thanks to quad-band WCDMA and dual-band EV-DO network connection technology
- WIFI interface integrated for remote control and data transfer
- highspeed 100 Mb/s ethernet interface for integration into larger networks
- easy data transfer via USB-stick
- process interface to SCADA via relay outputs, 4-20 mA, SDI-12, Modbus RTU/TCP and Profibus DP
- integration of third party sensors via 4-20 mA inputs, SDI-12 and Modbus RTU/TCP
- easily extendable with additional analog and digital I/Os utilizing eight available extension slots
- process software moni::tool pre-installed; additional software tools (e.g. data validation or event detection) optional
- display of concentration values, historians, optical spectra and all events in clear text
- easy configuration, calibration and administration of full s::can monitoring stations and networks

standard accessories

part number	article name
S-11-04-moni	moni::tool - Basic s::can monitoring station software for
S-11-08-moni	4 (8) parameters

technical specification

integration of	1 x s::can spectrometer probe and 3 x s::can sensors or ISE probes
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)
operating system	embedded XP
main memory	1 GB RAM
onboard memory	4 GB
interface connection to s::can spectrometric probes	1 x MIL, IP 68, RS485, 12 VDC
interface connection to s::can sensors	3 x sys plug, IP 68, RS485, 12 VDC
interface to third party sensors	RS485 Modbus, SDI-12, up to 16 x 4-20mA input
network connection	802.11n a/b/g WIFI 300Mb/s Ethernet LAN
interface to SCADA	Modbus RTU or TCP, Profibus DP (optional), SDI-12
data transfer	via PC or USB stick
remote control & data transfer	via Ethernet / XML protocol
GSM/GPRS Modem	Global multi-mode connectivity 850/1900 MHz GSM/GPRS/EDGE - 850/900/1800/1900 MHz HSDPA/HSUPA/UMTS - 850/900/1900/2100 MHz

power supply	D-315-230: 100 ... 240 VAC D-315-024: 10 ... 30 VDC
grounding	<0.5 Ohm to process media
power consumption (typical)	10 W (no display, no analogue ports) 30 W (fully equipped)
power consumption (max.)	20 W (no display, no analogue ports) 60 W (fully equipped)
analog outputs	up to 8x2 x 4-20 mA
analog inputs	up to 8x2 x 4-20 mA
outputs for automatic cleaning	2
digital inputs	up to 7x2 x 24 VDC
relay outputs	4 x 2A (250 VAC)
system error relay	1 x 2A (250 VAC)
dimensions (width x height x depth)	280 x 209 x 85 mm
housing material	aluminium alloy, powder coated
weight (min.)	2 kg (no display) 3 kg (incl. display)
operating temperature	-20 ... 50 °C
storage temperature	-20 ... 60 °C
storage humidity	5 ... 90 %
protection class	IP65
conformity - EMC	EN 61326:2006
conformity - safety	EN 61010-1:2001
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 on con::cube / con::lyte, incl. CEE-7 Schuko plug ("continental") IP44, incl. assembling
C-31-us	Optional 2 m power cable on con::cube / con::lyte, incl. NEMA 5-15 plug IP55, incl. assembling
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-in-SDI12	SDI 12 (input module), provides SDI 12 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 DPV0 for data transfer to PLC systems
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-touch	Display and Touch Screen (input module), 7" VGA TFT display & touch for access to GUI
F-51	weather shield for s::can terminals
S-11-24-moni	moni::tool - Advanced s::can monitoring station software for 24 parameters
S-14-08-vali S-14-24-vali	vali::tool - s::can data validation software

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