

D-ISC 100 **Universal operating unit**

Flexible control and display of multiple
DURAG sensors

- Control of up to 8 DURAG sensors from one operating unit
- Integration of power and purge air supply for one DURAG sensor
- Flexible options for remote access
- Communication with data management system



Features

- Control of up to 8 DURAG sensors
- Automatic detection of connected measuring devices
- Combination with power and purge air supply
- Flexible options for remote access, e.g. by connecting several operating units in series
- Protective housing in various designs

Technical data

Functions	<ul style="list-style-type: none"> ▪ Display and transfer of measurement data ▪ Configuration of device parameters ▪ Automatic and manual execution of service and maintenance functions
Compatibility	<ul style="list-style-type: none"> ▪ Volume flow: D-FL 100, D-FL 220, D-FL 220T ▪ Dust: D-R 220, D-R 220T, D-R 290 2G, D-R 320, D-R 808
Number of measuring devices	<ul style="list-style-type: none"> ▪ Control: Up to 8 measuring devices ▪ Power supply: Up to 1 measuring device ▪ Purge air supply (optional): Up to 1 measuring device
Certificates	QAL1*, MCERTS*
Standards	EN 15267*, EN 14181*
Ambient conditions	<ul style="list-style-type: none"> ▪ Temperature: -20 ... +50 °C -40 ... +60 °C (optional) ▪ Relative humidity: 0 ... 95%, non-condensing ≥ 95% with weather protection cover (optional) ▪ Altitude: ≤ 2000 m
Degree of protection	Depending on product variant, see table below
Explosion protection	<p>Optional</p> <ul style="list-style-type: none"> ▪ ATEX: II 2 G Ex db eb IIC T4 Gb II 2 D Ex tb IIIC T 80 °C Db IP66 -20 °C ... +50 °C ▪ IECEx: Ex db eb IIC T4 Gb Ex tb IIIC T 80 °C Db IP66 -20 °C ... +50 °C

Benefits

- Time-saving and straightforward management of DURAG sensor networks
- Space-saving and simplified measuring device installation
- Remote measuring device control and maintenance
- Installation in extreme ambient conditions and Ex zones

Interfaces	<ul style="list-style-type: none"> ▪ USB, Modbus RTU (optional), Modbus TCP (optional) ▪ Expansion modules (optional)**: Profibus DP
Inputs and outputs	<ul style="list-style-type: none"> ▪ Analog output: 1x 4 ... 20 mA, max. 400 Ω, potential-free (various parameters configurable) ▪ Digital output: 2x NC/NO, max. 60 V~, 30 V~, 0,5 A, potential-free (various parameters configurable) ▪ Expansion modules (optional)**: Analog output: 4x 4 ... 20 mA Analog input: 4x 4 ... 20 mA Digital output: 8x NC/NO Digital input: 8x NC/NO
Display and control	<ul style="list-style-type: none"> ▪ Display: Graphic LC with keypad ▪ Status display: 5x LED ▪ Remote access: USB, Modbus RTU (optional), Modbus TCP (optional) ▪ D-ESI 100 software***
Electrical data	<p>90 ... 264 V~ 48 ... 62 Hz 200 VA, 450 VA (with purge air)</p>
Connections	Device: M23 DURAG Standard
Material	Depending on product variant, see table below
Purge air for measuring devices	<p>Optional</p> <ul style="list-style-type: none"> ▪ For D-R 320: Max. 27 m³/h, output-regulated, Ø 40 mm connection ▪ For D-R 808, D-R 220: Max. 15.5 m³/h or 31 m³/h****, Ø 25 mm connection

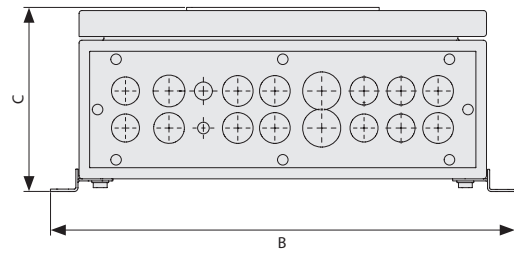
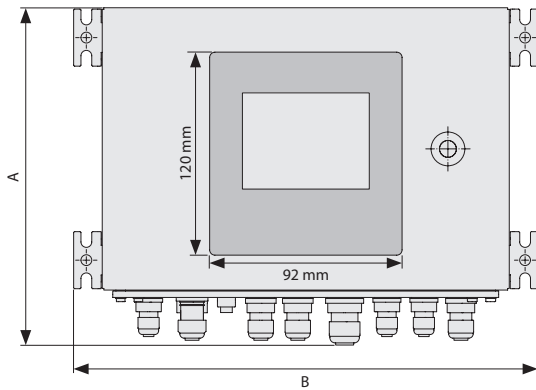
* In conjunction with approved measuring devices

** Data per module, maximum number of modules: 0 ... 4, depending on product variant, see table below

*** Enables remote access via web interface, requires PC with Windows operating system

**** Depending on inner stack pressure

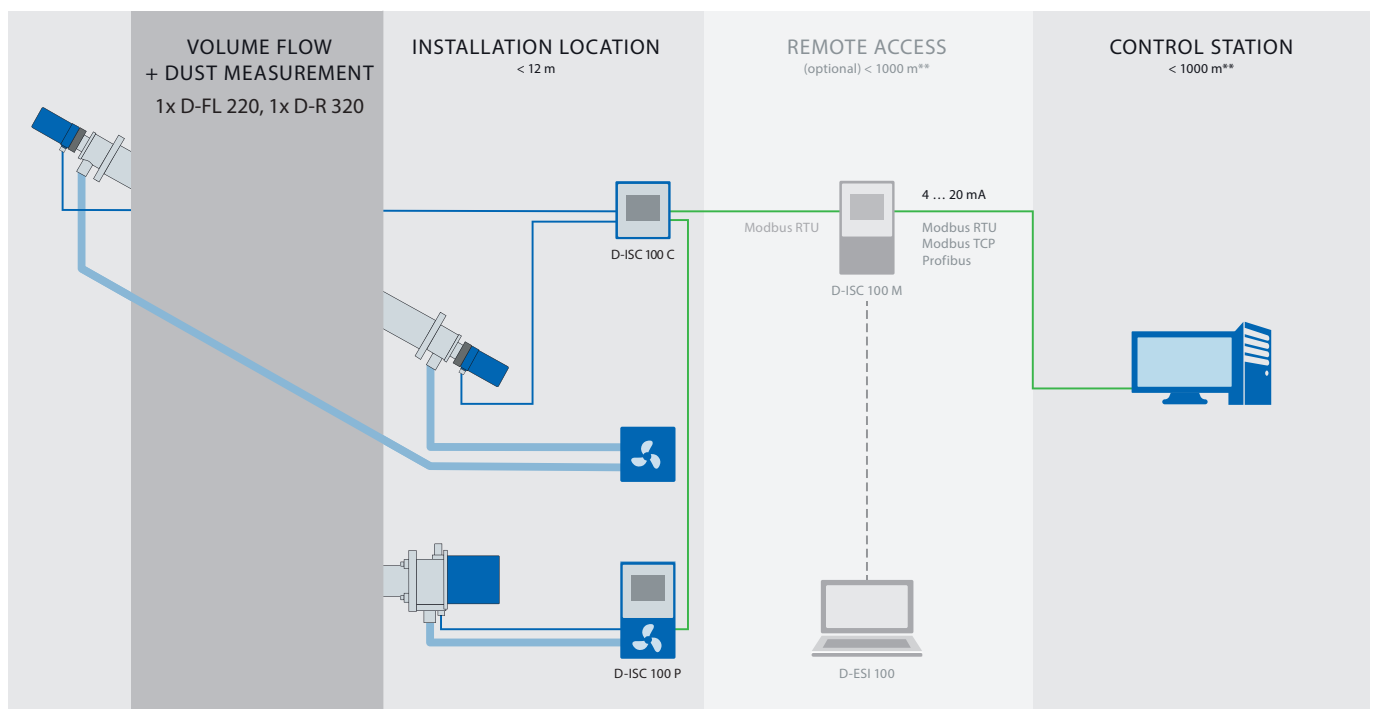
D-ISC 100 | PROPERTIES OF PRODUCT VARIANTS



Dimensional drawing of the D-ISC 100 using the example of variant M.
Product design of variants R and M I3 differs from M, C and P variants due to their application.

Variant	Description	A	B	C	Weight	Material	Degree of protection	Expansion modules
M	Standard	319 mm	439 mm	175 mm	10 kg	Stainless steel (1.4301, AISI 304), painted	IP65	Up to 4
P	With purge air	529 mm	454 mm	241 mm	20 kg	Stainless steel (1.4301, AISI 304), painted	IP65	Up to 2
C	Compact	270 mm	266 mm	120 mm	5 kg	Aluminum, painted	IP65	None
R	For 19" rack	267 mm (6 RU)	483 mm	258 mm	10 kg	Aluminum, anodized	IP20	Up to 4
M I3	For Ex-zones	717 mm	410 mm	281 mm	41 kg	Aluminum, polyester resin (glass fiber reinforced), painted	IP66	4, fixed configuration

EXAMPLES OF SYSTEM CONFIGURATIONS | DURAG SENSOR NETWORK WITH MULTIPLE OPERATING UNITS



* All system components shown are available on request
** Maximum permitted cable and hose length

DURAG GROUP

DURAG GROUP
Kollastraße 105
22453 Hamburg, Germany
Phone +49 40 55 42 18-0
Fax +49 40 55 42 54
info@durag.com

www.durag.com