HALOGEN SYSTEMS

MULTI-PARAMETER DISPLAY / CONTROLLER

The D20.
Every parameter.
Data you keep.



Sensor-autodetecting controller for the MP5-A and MP-Mono.
Onboard data logging with local CSV export. Cloud and SCADA optional.

3.5" TFT	1M+	CSV	IP65	ETL
MULTI-PARAMETER DISPLAY	LOGGED RECORDS / SENSOR	LOCAL SD CARD EXPORT	NEMA 4X OUTDOOR RATED	CERTIFIED TO UL & CSA

Why operators standardize on the D20

01
Plug-and-Play Sensors
Autodetects MP5-A and MP-Mono sensors. Standard M12 connection and 120VAC NEMA plug for fast installation.

02
Local CSV Data Export
Over 1 million records logged per sensor to a removable SD card in open CSV format. No network or software required.

03
Every Parameter, One Screen
Free chlorine, monochloramine, pH, conductivity, and temperature displayed together on a single 3.5" TFT interface.

04
Cloud & SCADA Ready
Optional cellular with eSIM, Modbus TCP/IP, EtherNet/IP, BACnet, and a Bluetooth mobile app. RS485 Modbus RTU standard.

05
Built for the Field
IP65 / NEMA 4X enclosure rated for outdoor use, operating from -20 to 60C.
Battery-backed real-time clock.

06
Control Onboard
Four SPDT relays (two control, two alarm) switching up to 5A at 240VAC. Firmware updates from the front-panel keypad.

Ordering Configurations

D20-H
120/240VAC
NEMA 5 plug, M12 sensor connection. Standard wall mount.

D20-L
24VDC
Low-voltage option, conduit power entry, M12 sensor connection.

D20-OTA-H
CELLULAR - NA
North America cellular with eSIM. Cloud sync and remote troubleshooting.

D20-OTA-HEU
CELLULAR - EMEA
EMEA cellular module with eSIM. Cloud sync and remote troubleshooting.

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ETL (UL/CSA) | CE | FCC | UKCA

Technical Specifications

Description	Menu-driven controller	**Operating Temp**	-20 - 60C (-4 - 140F)
Display	3.5" TFT	**Storage Conditions**	-20 - 70C, 0-95% RH
Dimensions	6.3" x 6.3" x 4" (160x160x102 mm)	**Relays**	Four SPDT (2 ctrl, 2 alarm)
Weight	3 lbs (1.4 kg)	**Relay Rating**	5A resistive @ 100-240VAC
Enclosure Rating	IP65, NEMA 250 Type 4X	**Analog Outputs**	Four 0-20 / 4-20 mA
Installation Category	CAT II, Pollution degree 4	**Digital Comm**	RS485 Modbus RTU std
Certifications	ETL (UL/CSA), CE, FCC, UKCA	**Data Logging**	1M+ records/sensor, SD card
Power	85-240VAC +/-10%, 50/60Hz	**Local Export**	CSV via removable SD card
Power Option	24VDC	**Real-Time Clock**	Battery-backed, est. 5 yr
Warranty	12 months	**Sensor Connection**	M12-4, autodetect



Local Data Export - Standard on Every D20

All logged measurement records are stored on the removable SD card in open CSV format. Staff export data by removing the card - files open directly in any spreadsheet or text editor. No network connection, Internet access, vendor-hosted software, or proprietary tools are required to retrieve or read stored data. Cloud, Bluetooth, and Modbus access are optional conveniences; local export is built in and always available.

Accessories & Options

COMM-CELL-NA
Cellular module, North America (eSIM)

COMM-CELL-EU
Cellular module, EMEA (eSIM)

COMM-ENET
Modbus TCP/IP / EtherNet/IP / BACnet

COMM-BLE
Bluetooth mobile app (iOS / Android)

D20-L
24VDC power option

PROFIBUS
Profibus module

Connectivity Without Lock-In

The optional communications board adds cellular (latest eSIM technology - no SIM cards), Modbus TCP/IP, EtherNet/IP, BACnet, or Profibus, plus a Bluetooth mobile app that duplicates every D20 function on iPhone or Android.

Connectivity extends the D20 - it never gates your data. Every measurement remains logged on the controller and exportable locally in CSV, with or without a network.



ETL Certified to UL & CSA Safety Standards | CE | FCC | UKCA | IP65 / NEMA 4X