

AX- ER/LPR DCU & HHU

AXESS ER & LPR DATA COLLECTION UNIT

Data Collection Unit for ER, LPR & Galvanic Probes
High Resolution 20-bit Unit



Axess Data Collection Unit

The Axess DCU is a high resolution, battery powered, corrosion monitoring instrument capable of reading all types of electrical resistance (ER), linear polarization resistance (LPR) and galvanic probes.

The unit is operated with an integrated menu driven screen for ease of use, providing rapid measurements of metal loss for electrical resistance probes, corrosion rate for linear polarization resistance probes, and current or potential for galvanic probes. The most recent reading is also viewable on the display.

Up to 7,200 data points are preserved in the internal memory which can be downloaded to the Axess HHU via the RS-232 Serial ASCII connection, for transfer to the accompanying corrosion monitoring software (CDAS) for analysis. The software is used to graph metal loss trends, calculate corrosion rates with data exportable in csv (comma separated value) format for import into excel and other applications.

An optional mounting bracket kit is available for direct mounting to site structure or Axess low and high pressure access systems.



Key Features

- 20-bit high resolution for measurement of ER, LPR and Galvanic Probes
- LCD/Keypad
- Communication port for downloading data using Axess HHU
- Powered by 7.2V lithium primary battery pack
- Memory storage capacity of up to 7200 Data Readings
- Versatile mounting bracket kit available

Technical Specification	
Probe Type	Electrical Resistance (ER) Linear Polarization Resistance (LPR) Galvanic Potential
Resolution	20 bits
Memory	7.200 Readings
Temperature range	-20°C to +70°C (-4°F to +158°F)
Power Supply	Lithium Battery Pack (7.2V 5Ah)
IECEX	Ex ia IIC T4 Ga/Gb
ATEX	Ex II 1/2 G Ex ia IIC T4 Ga/Gb
Ingress Protection	IP66
Communication	RS-232 Serial ASCII Bus 9600, 8, N, 1
Weight	1.7kg (3.8lb)
Dimensions	6.5" x 6.5" x 4.25" (165mm x 165mm x 108mm)

Part Numbering	
AXDCUHB	Axess Data Collection Unit
AXDCUHBAT	7.2V 5Ah Lithium Battery Pack
AXDCUBRKT	DCU Mounting Bracket Kit

AX HANDHELD UNIT HHU

Direct Measurement Reader for ER, LPR & Galvanic Probes
Data Collector for Axess DCU (Data Collection Unit)



Axess HHU Handheld Unit

The Axess HHU is a high resolution, battery powered, handheld corrosion monitoring instrument capable of reading all types of electrical resistance (ER), linear polarization resistance (LPR) and galvanic probes.

The unit is operated using the integrated keypad and menu driven screen for ease of use, providing rapid measurement of metal loss for electrical resistance probes, corrosion rate for linear polarization resistance probes, and current or potential for galvanic probes.

The internal memory can store up to 7,200 data points and can be used with up to 100 probe tags. The RS-232C connection is used for downloading data from Axess Data Collection Units (DCU) for onwards transfer to a PC running the accompanying corrosion monitoring software (CDAS). The software is used to graph metal loss trends, calculate corrosion rates with data exportable in csv (comma separated value) format for import into excel and other applications.



Key Features

- 20-bit high resolution for measurement of ER, LPR and Galvanic Probes
- Menu driven for ease of use, with 50 alpha numeric keys and arrow keys
- 20 x 4-line wide LCD display
- Probe cable port for direct measurement
- Communication port for downloading data from the DCU and upload to a corrosion monitoring program for data analysis and export
- Ability to set up parameters with DCU instruments
- Powered by 7.2V lithium primary battery pack

Technical Specification	
Probe Type	Electrical Resistance (ER) Linear Polarization Resistance (LPR)
Resolution	20 bits
Memory	7.200 Readings
Temperature range	-20°C to +70°C (-4°F to +158°F)
Power Supply	Lithium Battery Pack (7.2V 5Ah)
IECEX	Ex ia IIC T4 Ga/Gb
ATEX	Ex II 1/2 G Ex ia IIC T4 Ga/Gb
Ingress Protection	IP66
Communication	RS-232 Serial ASCII Bus 9600, 8, N, 1
Weight	0.4kg (0.9lb)
Dimensions	4.2" x 8.8" x 2.3" (108mm x 224mm x 59mm)

Part Numbering	
AXHHUHB	Axess Hand Held Unit
AXDCUHBBAT	7.2V 5Ah Lithium Battery Pack