



# Selection guide

Measurement and monitoring system for DC electrical installations

**DIRIS Digiware**

Build your own DC system

Control and power supply interface (24 VDC)



**DIRIS Digiware D-x**  
with display

OR



**DIRIS Digiware C**  
without screen

Direct voltage acquisition module



**DIRIS Digiware Udc**

DC voltage adaptors



**DIRIS Digiware U500dc/U1000dc/U1500dc**

DC current acquisition module



**DIRIS Digiware Idc**  
3 current sensor inputs

DC current sensors






Solid-core sensors  
50 ... 5000 A



Split-core sensors  
50 ... 2000 A

Control and power supply interface



Application	Centralisation and display of data			Data centralisation	Repeater
					
<i>DIRIS Digiware</i>	<i>D-40</i>	<i>D-50</i>	<i>D-70</i>	<i>C-31</i>	<i>C-32</i>
<b>Function</b>					
Centralising measurement points	•	•	•	•	•
High-resolution LCD display (configuration, selection and visualisation display of circuits)	•	•	•		
Repeater					•
<b>Power supply</b>					
24 VDC	•	•	•	•	•
<b>Communication</b>					
RS485 Modbus	output	input	input	•	
Digiware Bus	•	•	•	•	•
Ethernet		Modbus TCP BACnet IP SNMP	Modbus TCP BACnet IP SNMP		
Embedded web server			•		




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DIRIS Digiware

## Direct voltage acquisition module (DC)

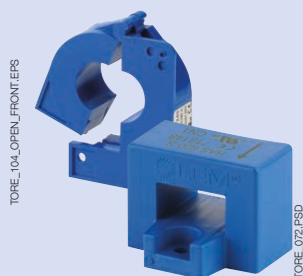
Application	DC voltage measurement	
		
<b>DIRIS Digiware Udc</b>	<b>U-31dc</b>	<b>U-32dc</b>
<b>Nominal voltage range</b>	24 ... 48 VDC	60 ... 150 VDC
<b>Measuring range (min-max)</b>	19,2 ... 60 VDC	48 ... 180 VDC
<b>Multi-measurement</b>		
DC voltage (VDC)	•	•
<b>Power quality</b>		
V ripple (voltage ripple)	•	•
V <sub>rms</sub>	•	•
<b>Alarms</b>		
Thresholds and combinations	•	•
<b>Trends</b>		
Average values	•	•
<b>Format</b>		
Width/number of modules	18 mm / 1	

Application	DC voltage adaptors		
			
<b>DIRIS Digiware Udc</b>	<b>U500dc</b>	<b>U1000dc</b>	<b>U1500dc</b>
<b>Max. voltage range</b>	200 ... 600 VDC	400 ... 1200 VDC	1200 ... 1650 VDC
<b>Association</b>			
U-32dc	•	•	•
<b>Format</b>			
Width/number of modules	54 mm / 3		

Direct current acquisition module (DC)

Application	Direct current (DC) measurement modules	
		
<i>DIRIS Digiware Idc</i>	<i>I-30dc</i>	<i>I-35dc</i>
Number of current inputs	3	3
Metering		
± kWh	•	•
Load curves		•
Multi-measurement		
DC current (I DC)	•	•
DC power (P DC)	•	•
Predictive power		•
Measurement of current quality		
I ripple (current ripple)		•
I rms		•
Alarms		
Thresholds and combinations		•
Trends		
Average values		•
Format		
Width/number of modules	18 mm / 1	

**DC current sensors**



DC current sensors measure the load currents of a DC electrical installation and transmit the information to DIRIS Digiware Idc modules via a quick RJ12 connection with color-coded cables for an easy identification of circuits. The range comprises solid-core and split-core sensors, from 50 to 5000 A in various sizes, suitable for new or retrofit applications.

- Easy connection to prevent wiring errors.
- Up to 3 sensors on each DIRIS Digiware Idc measurement module.