

# Submarine Battery Project (HEW, IBT)

Shelton CT, USA - Aachen, Germany - Qingdao, China

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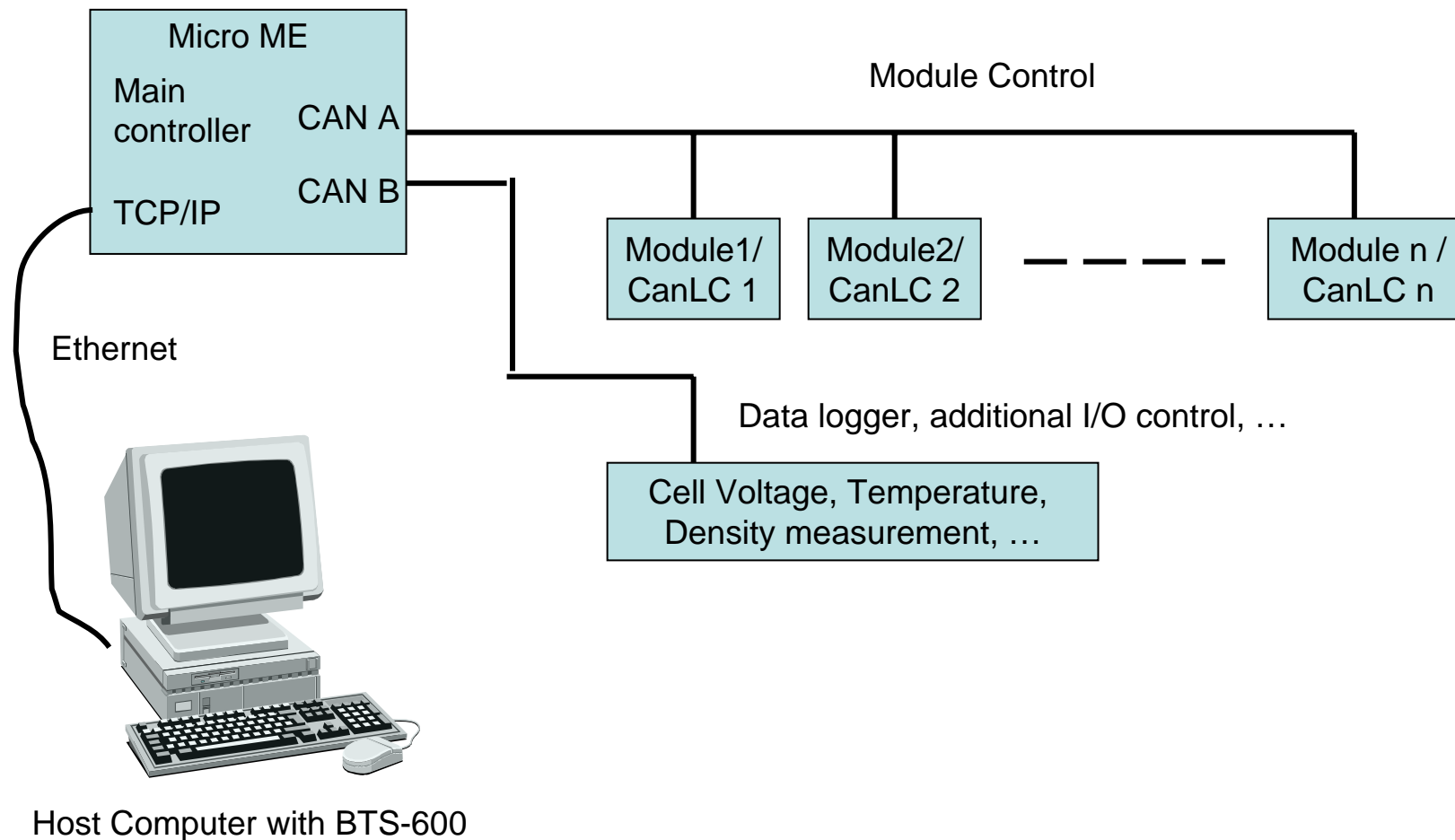


# Submarine Battery Project (HEW, IBT)

Application:           Cycling, life expectancy, capacity, high rate discharge test

- Special Features:
- BTS-600 Host Computer Software
  - MicroME controller for 14 modules, 1000 A
  - Circuits automatically activated in accordance with the programmed current (i.e programmed current 3500 A=3 circuits 1000 A, and one circuit 500 A)
  - Data logger with digital inputs/outputs for cooling, electrolyte recirculation, alarm, acid density measuring
  - RS232 interface for density meter

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## 14000A High Rate Discharge System

### HEW 14000-06

Technical Data	
Current rising time:	140 ms
Voltage range:	6 - 0 V
Accuracy 10 -100%:	0.5% of set value
Accuracy 0 - 10%:	0.05% f.s.
Power:	140 kVA
Dimensions HxWxD:	4x 245 x 80 x 240 cm

# Submarine Battery Project

## 3500/4000A Life Cycle Test System

### IBT 3500/4000-12

Technical Data	
Charge Current range:	40 - 4000A
Discharge Current range:	40 - 3500 A
Charge Voltage range:	5 - 12 V
Discharge Voltage range:	7 – 2.5 V
Current rise time:	40 ms
10 -100%:	0.5% of set value
Accuracy 0 - 10%:	0.05% f.s.
Power:	88 kVA
Dimensions HxWxD:	245 x 80 x 240 cm

# Submarine Battery Project (HEW, IBT)

Density Meter DMA 35



# Submarine Battery Project (HEW, IBT)

## Density Meter DMA 35

Technical Data	
Measuring range	
Density :	0 – 1.999 g/cm <sup>3</sup>
Temperature:	0 – 40 °C
Viscosity:	0 – approx. 1000 mPa.s
Accuracy	
Density:	± 0.001% g/cm <sup>3</sup>
Temperature:	± 0.05% °C
Memory capacity :	1024 values
Interface :	Infrared / RS232

# Submarine Battery Project (HEW, IBT)

Data Logger DLP – CAN – 10S



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## Data Logger DLP – CAN – 10S

Technical Data	
Number of channels:	10
Channel "Cell 1, Cell 2, Cell 3":	0 – 3 V DC
Channel "Vref. 1, Vref. 2, Vref. 3":	0 – 2 V DC
Accuracy	
Voltage measuring channel:	$\pm 0.5 \%$
Channel "Temp 1, Temp 2, Temp 3":	-30°C up to 100°C
Accuracy	
Temperature measuring channel:	$\pm 0.1 \text{ }^\circ\text{C}$
Data acquisition rate:	100 ms
Number of relay outputs:	3