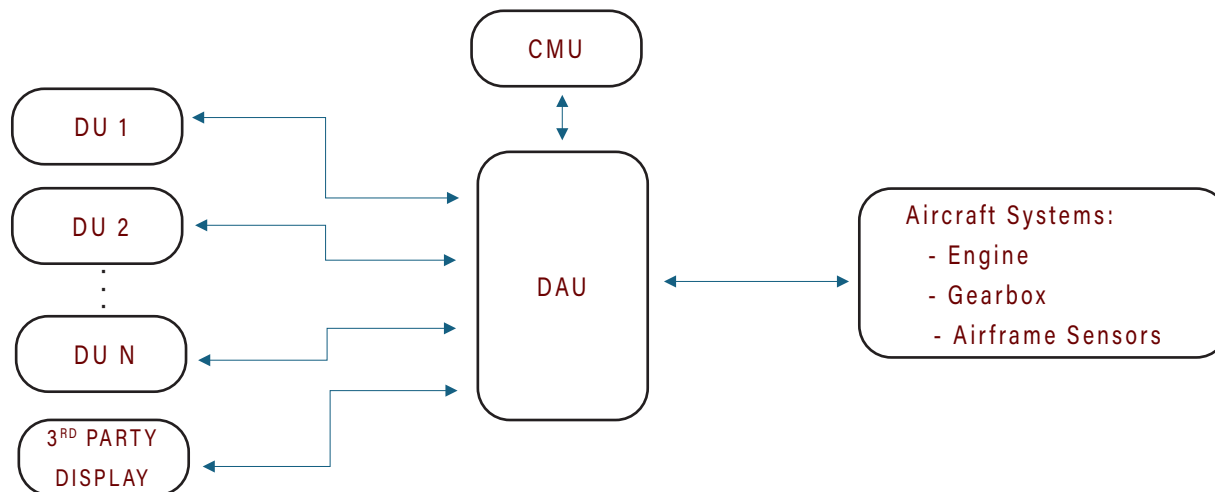


Data Acquisition System (DAS)

The Howell Data Acquisition System (DAS) integrates a Data Acquisition Unit (DAU), a Configuration Module Unit (CMU), and one or more Display Units (DU). It can operate as a standalone solution or integrate with broader aircraft systems to send and receive data as required.



H397/H398 Data Acquisition Unit

The H397/H398 DAU collects engine and aircraft system sensor data for recording or cockpit display. Each DAU contains two redundant Engine Interface Units (EIUs), either of which can independently read all signals and transmit converted results to the DU.

Certifications

Software	DO-178B DAL A
Environmental	DO-160G
TSO	C43d, C44c, C47a, C49b, C55a

Electrical & Physical

Input Power	28 VDC nominal
Power Consumption	< 8W, H397 < 30W, H398
Dimensions (excluding circular connectors)	8.4" x 4.8" x 2.6" H397 11.0" x 7.0" x 4.7" H398
Weight	≤ 4 lbs., H397 ≤ 10 lbs., H398

Typical I/O Parameters

RTDs	Voltages
Synchro	Second Harmonic FF
Ratio-Metric	Capacitive Fuel Quantity
Discrete Inputs	Discrete Outputs
RS-232, RS-422	ARINC 429, 825
Tachometers	Thermocouples
LVDT/RVDT	Strain Gauges



H397



H398



Data Acquisition System

(DAS)



H698 Series CMU

H698 CMUs configure the DAS for a specific engine or aircraft, enabling tailoring to a given installation without requiring changes to installed software. H698 CMUs provides extra memory for data logging.

- Field-tailorable configurations per aircraft/engine
- No changes to installed software required

Dimensions (L x W x H)	Weight
4.0" x 2.0" x 1.5"	0.5 lbs



Display Units

DUs are designed to be used in sets, providing redundancy. If one DU fails, another automatically consolidates the failed readings into its own graphics to ensure continued operation.

DUs also provide control over the DAU, allowing users to select which DAU channel provides excitation or which channel's readings to use in case of sensor acquisition failure.

Available in 7", Dual 7" and 3ATI form factors. Each can be programmed with custom graphics to maintain a familiar user interface relative to legacy instrumentation while enabling enhanced warning logic aligned to flight manual limitations.

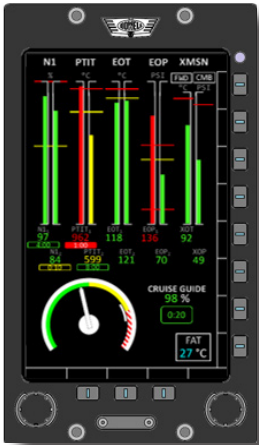
Model	Dimensions (L x W x H)	Weight	Qualification	TSOs
H405	3.25" x 3.25" x 4.38"	1.5 lbs.	DO-178B DAL A	C43d, C44c, C45b, C47a, C49b, C55a, C113b
H410	10.55" x 7.3" x 2.37"	6 lbs.		
H420	4.68" x 8.25" x 2.57"	4 lbs.		



H405



H410



H420

