

H-2680 & H-2682 Maturity Meters

MULTI-CHANNEL

H-2682

Maturity Testing Benefits (ASTM C1074)

Open pavements to traffic faster | Safely strip forms sooner | End reliance on field-cured test cylinders | Improve jobsite safety Monitor in-place temperatures to ensure proper curing | Terminate external heating sooner Speeds production by at least a day per pour on structural projects and more on pavement projects

Simple, Reliable Design

Humboldt Maturity Meters provide a predictable strength determination of cast-in-place concrete based on ASTM Standard C1074-98 (Estimating Concrete Strength by the Maturity Meter Method). These units utilize inexpensive, disposable, T-type thermocouple wire with quick-connect jacks, which can be embedded directly into a concrete structure to measure temperature at timed intervals. These readings can then be used to document the maturity process within the structure in order to:

- predict the time for form and shoring removal;
- estimate loading and post-tensioning time;
- control winter heating/insulation requirements, and
- reduce construction time and costs through accurate maturity readings.

The H-2680 and H-2682 are four-channel models, which provide the maturity number calculation, instant readout and temperature history on a menu-driven alphanumeric display. A communications port allows information to be transferred from the meter to another meter, printer or computer. The H-2682 provides the use of a rechargeable. nickel-cadmium battery, which can be used to enhance performance in cold weather applications.

H-2680 & H-2682— Maturity Meters

Thormocouple Wire		Ordering Information:		
Thermocouple Wire:Type T (Omega "flat pin" miniature)Sensor Measurement Range (± 1°C):-10°C to 90°C			H-2680— Multi-channel Maturity Meter Set Includes: (4) Type-T thermocouple wire and connectors RS-232 communications cable	
Unit Environmental Range (± 1°C): -10°C to 60°C				
Data Record:				
5 5		32K	Plastic carrying case and user manual	
Data Capacity:) months x 4 channels	H-2682— Rechargeable Multi-channel Maturity Meter Set, Includes: all the above, and comes	
Recording Interval:	Every 1/2-hr. to	48 hrs., then every hr.		
Power (Battery):			with a rechargeable nickel-cadmium	
H-2680	2680 9V Lithium (U9VL) or Alkaline Transistor-typ		battery and a 120V battery charger/ AC adapter	
H-2682	9.6V NiCad with recharger or AC			
Enclosure:				
Case Materials: Impact and Splash Resistant Polycarbonate				
Dimensions: 7.8"(20cm) x 4.7"(12cm) x 2.9"(7cm)				
Weight:		1.75 lbs (.8Kg)		
Communications:			Accessories	
I/O Port		Serial RS-232C	H-2670.1—	Thermocouple wire, 24 gauge, sold per foot (std.)
Handshaking	shaking XON/XO		H-2670.IT—	Thermocouple wire, 20 gauge,
Data Format		ASCII		sold per foot (heavy-duty)
Baud Rates Up to 9600 –select Maturity Value Calculations:		p to 9600 –selectable	H-2680P—	Plug for thermocouple wire to meter
			H-2684—	Printer (Serial Port, Epson LX300,
Constant Programmable Range Datum Temperature:		-20°C to 40°C		with H-2685 cable)
Equivalent Age Temperature:		0°C to -40°C	H-2682BP—	9.6V Rechargeable Ni-cad Battery Pack
Activation Energy Constant:		0°K to 2x1040K	H-2686—	Maturity meter to PC serial
Maximum Maturity Values Displayed:			cable, 9-pin	
Temperature/Time Factor:		99999°C hours	H-2685—	Maturity meter to printer serial
Equivalent Age Factor:		9999 hours		cable, 25-pin
Spacifications may	hange without notice		H-2680B—	9V Lithium battery

Specifications Meet ASTM Standards: C1074 and C198

Specifications may change without notice





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