ADR Advanced Digital Readout

- ***Menu-driven with simple data entry.***
- ***Dual input and operating modes.***
- ***Peak hold and auto stress calculation.***
- ***RS232C output.***
- ***Pace deviation bar graph for accurate load rate applications.***

The ADR Advanced Digital Readout incorporates the latest in microprocessor technology, offering top productivity and accuracy that are unmatched in the industry. Its advanced facilities for data acquisition, calculation and presentation provide a very effective upgrade path for your existing compression and flexural testing machines.

Procedures are easily executed on the touch-button data entry keypad with results viewed on the large, backlit LCD display.

Accurate load pacing is assured by means of the pace deviation bar graph incorporated into the display. The stress is calculated automatically at specimen failure and then displayed in engineering units.

Automatic storage for data for 500 tests is possible. Using the serial RS232C communication port, data can be sent to personal computers or printers for hard copy printout of the tests.

Specifications

Inputs.	*2, via standard 5 pin DIN sockets.*
Input Range.	*+/-20 mV to +/-2 V FS.*
Transducer Excitation.	*10 V @ 100 mA (total).*
Measurement Units.	*Lbf, kN or kgf (selectable).*
Accuracy.	*Better than +/- 1% over the calibrated range.*
Display.	*4 rows x 20 characters LCD.*
Maximum Load.	*Held until reset.*
Outputs.	*Serial RS232C.*
Dimensions.	*14.2" w. x 12.6" d. x 5.1" h. (360 x 320 x 130 mm).*
Weight.	*Net 10 lbs. (4.5 kg).*

Ordering Information

Note: Pressure transducer needed for operation; not included, order separately. On-site calibration is required after the transducer and ADR are connected to the compression tester.

EI37-4855/09. 110-220vAC, 50-60 Hz, 1ø.

Accessories

EI37-4855/10. Pressure Transducer. 0-10,000 psi (0-68,947 kPa) range.
EI37-4855/35. ADR Data Acquisition Program.
EI37-4861/02. Portable Impact Tape Printer, Serial Interface. 110vAC, 50/60 Hz, 1ø.
EI37-4861/01. Portable Impact Tape Printer, Serial Interface. 220vAC, 50/60 Hz, 1ø.

ADR Acquisition Software

Offered as an optional accessory, the ADR Acquisition Program allows the user to download data from the EI37-4855 series ADR Advanced Digital Readout.

Ordering Information

EI37-4855/35. Supplied on CD-Rom. Complete with RS232C cable.

Replacement Test Gauges

- ***Factory calibrated using NIST traceable calibration equipment.***
- ***Dual-scale in lbf. and kN.***
- ***External zero adjustment.***

All ELE Test Gauges have large, easy-to-read dual scale dials in pound force and kilonewtons. The mirror-back dial is designed to eliminate non-parallax readings. All gauges are factory calibrated to be accurate to within 1.0% of the indicated load between 10-100% of the range.

Specifications

Dial.	*Dual-scale in lbf. and kN.*
Pointers.	*Black knife edge and red maximum load.*
Calibration.	*Factory calibrated for compression testers with a 6-1/8" (155 mm) diam. ram.*
Accuracy.	*Within +/-1.0% of indicated load within range.*
Weight.	*12" (305 mm): Net 14 lbs. (6.3 kg).* *8-1/2" (216 mm): Net 5 lbs. (2.3 kg).*

Ordering Information

EI36-0655/12. 12" (305 mm) Diameter Gauge. 250,000 lbf. (1,112 kN) capacity.
EI36-0655/14. 12" (305 mm) Diameter Gauge. 30,000 lbf. (134 kN) capacity.
EI36-0657/12. 8-1/2" (216 mm) Diameter Gauge. 250,000 lbf. (1,112 kN) capacity.
EI36-1452/14. 8-1/2" (216 mm) Diameter Gauge. 30,000 lbf. (134 kN) capacity.

Electric Pump Attachment

- ***Converts manually operated compression testers in minutes.***
- ***Lightweight and portable for easy transport.***
- ***Pressure compensated flow control valve.***

The Electric Pump Attachment is used for converting manually operated compression testers into motorized units with variable loading control.

Specifications

Motor.	*1 h.p. (0.7 kw).*
Flow Control Valve.	*Pressure compensated system; regulates variable flow and relieves excess delivery back into reservoir.*
Hydraulic Fluid/Delivery.	*Variable; from 2 cu. in./min. to maximum pump capacity.*
Normal Operating Pressure.	*10,000 psi; delivers up to 30 cu. in./min.*
Weight.	*Net 80 lbs. (36 kg).*

Ordering Information

EI37-5574/02. 110vAC, 60 Hz, 1ø.
EI37-5574/06. 220vAC, 60 Hz, 1ø.
EI37-5574/01. 220vAC, 50 Hz, 1ø.

Frame Stands

- ***Raises frame off floor to a more convenient height for specimen loading.***

The Frame Stand is used to raise any of our compression testers to a convenient height. Raising frames off the floor reduces the need for technicians to bend over during specimen placement.

Specifications

Construction.	*Steel; with shelf and mounting holes for frame and floor bolting. Mounting bolts included.*
Dimensions.	*EI37-5570: 20-1/2" w. x 17-1/2" d. x 15" h. (520 x 444 x 381 mm).* *EI37-5575: 29" w. x 20" d. x 20" h. (736 x 508 x 508 mm).*
Weight.	*EI37-5570: Net 85 lbs. (38.5 kg).* *EI37-5575: Net 200 lbs. (90.7 kg).*

Ordering Information

EI37-5570. For Accu-tek 250 Series Compression Testers.
EI37-5575. For Accu-tek 350 and 500 Series Compression Testers.

Rapid-Change Cylinder Platen Sets

ASTM C-39; AASHTO T-22.

- ***Designed for easy mounting.***
- ***Meet ASTM and AASHTO requirements.***
- ***Precision ground and hardened.***

These Cylinder Platen Sets are designed to be used on all of our ASTM Compression Testers that use the Rapid-Change mounting system.

Ordering Information

Note: *Model EI37-5500 Platen Set shown mounted on ACCU-TEK™ 500 series load frame.*

EI37-5500. Platen Set for 6" x 12" (152 x 305 mm) Cylinders. Consists of one upper platen assembly (EI37-5550) and one spacer (EI37-5552).

EI37-5502. Platen Set for 4" x 8" (102 x 203 mm) Cylinders. Consists of one upper platen assembly (EI37-5550) and two spacers (EI5552 & EI37-5554).

EI37-5504. Platen Set for 3" x 6" (76 x 152 mm) Cylinders. Consists of one upper platen assembly (EI37-5556), two pedestal spacers (EI37-5558 & EI37-5560),and one pedestal (EI37-5562).

ACCU-TEK™ 250 Series Cylinder Platen Sets

ASTM C-39; AASHTO T-22.

- ***Easy installation.***
- ***Precision ground and hardened.***
- ***Two sizes available.***
- ***Meet ASTM and AASHTO specifications.***

The Cylinder Platen Set is used to test concrete cylinders in the ACCU-TEK™ 250 series compression tester. The set provides the convenience of having all components needed for the size of the cylinder being tested. All platens and spacers are precision ground and hardened. The accessory easily mounts into the load frame.

Specifications

Construction.	*Precision ground and hardened steel; plated for rust and corrosion resistance.*
Weights.	*EI37-5506: Net 41 lbs. (18 kg).* *EI37-5508: Net 25 lbs. (11 kg).*

Ordering Information

Note: *Model EI37-5506 Platen Set shown mounted on ACCU-TEK™ 250 series load frame.*

EI37-5506. Platen Set for 4" x 8" (102 x 203 mm) Cylinders. Consists of lower platen, upper platen, and two spacers.

EI37-5508. Platen Set for 3" x 6" ((76 x 152 mm) Cylinders. Consists of lower platen and two spacers.

Rapid-Change Cube Platen Sets

ASTM C-109.

- ***Toe hitch design on upper platen assembly for easy mounting.***
- ***All necessary components included in set.***
- ***Precision ground and hardened.***

With all necessary components included, the Cube Platen Set simplifies testing 2" (50 mm) and 6" (152 mm) cubes on all ASTM Compression Testers using the Rapid-Change platen mounting system.

Ordering Information

Note: Model EI37-5510 Platen Set shown mounted in ACCU-TEK™ 500 series load frame.

EI37-5510. Platen Set for 2" (50 mm) Cubes. Consists of one upper platen assembly (EI37-5556), one spacer (EI37-5564), one pedestal spacer (EI37-5560), and one pedestal (EI37-5562).

EI37-5512. Platen Set for 6" (152 mm) Cubes. Consists of one upper platen assembly EI37-5566), and two spacers (EI37-5554).

ACCU-TEK™ 250 Series Cube Platen Sets

ASTM C-109.

- ***Designed for easy attachment.***
- ***Precision ground and hardened.***
- ***Available for 2" (50 mm) and 6" (150 mm) cubes.***

The Cube Platen Sets are used for compressive strength testing of cubes on the ACCU-TEK™ 250 series concrete compression testers. The platens are designed to easily attach to the tester and are precision ground and hardened. They are manufactured in accordance with ASTM specifications.

Specifications

Construction.	*Precision ground and hardened steel; plated for rust and corrosion resistance.*
Weights.	*EI37-5514: Net 23 lbs. (10 kg).* *EI37-5516. Net 53 lbs. (24 kg).*

Ordering Information

Note: Model EI37-5514 shown mounted on ACCU-TEK™ 250 series load frame.

EI37-5514. Platen Set for 2" (50 mm) Cubes. Consists of upper platen (EI37-5514/12) and lower platen (EI37-5514/10).

EI37-5516. Platen Set for 6" (150 mm) Cubes.

Rapid-Change Block Platen Sets

ASTM C-140.

- ***Rapid-change upper platen assembly which mounts to system by means of a holding stem.***
- ***Contact surface which is hardened and precision ground to meet industry standards.***
- ***Scribe marks on the lower bearing block for convenient positioning of sample.***

The Block Platen Set is used to apply a compressive force to masonry products up to 10" (254 mm) in size on the ACCU-TEK ™/ADR-AUTO™ 350 series tester and up to 12" (300 mm) in size on the AUTO-TEK™/ACCU-TEK™ 500 series concrete compression testers. The accessory mounts on the frame by means of our rapid-change upper platen mounting system.

Ordering Information

Note *Model EI37-5518 Platen Set shown mounted on ACCU-TEK™ 500 series load frame.*

For use on AUTO-TEK™/ACCU-TEK™/ADR-AUTO™ 500 series:

EI37-5518. Platen Set for Blocks up to 12" (300 mm). Consists of block platen assembly (EI37-5568) and spacer (EI37-5552).

For use on ACCU-TEK™/ADR-AUTO™ 350 series:

EI37-5520. Platen Set for Blocks up to 10" (254 mm). Consists of upper platen assembly only.

ACCU-TEK™ 250 Series Block Platen Sets

ASTM C-140.

- ***Designed for easy mounting.***
- ***Precision ground and hardened.***
- ***Plated for rust resistance and long life.***

The Block Platen Set is used for testing 8" x 8" x 16" (200 x 200 x 406 mm) blocks on the ACCU-TEK™ 250 series concrete compression tester. The set consists of an upper and lower platen which easily mount on the tester. The platens are precision ground and hardened.

Specifications

Construction.	*Precision ground and hardened steel; plated for rust and corrosion resistance.*
Weight.	*Net 173 lbs. (78 kg).*

Ordering Information

Note: *Model EI37-5522 shown mounted on ACCU-TEK™ 250 series load frame.*

EI37-5522.

Rapid-Change Flexure Attachments

ASTM C-78, C-293; AASHTO T-97.

- ***Adjustable loading block for testing various lengths of specimens.***
- ***Center point or third point loading.***
- ***Meets ASTM and AASHTO specifications.***

These flexure attachments are designed for use on all ASTM Compression Testers using the Rapid-Change mounting system. They are used to apply center or third point loading methods to beams for the determination of the modulus of rupture. The upper loading head has drilled and tapped mounting holes for the adjustment of the bearing blocks from single to third point loading configurations.

The lower support channel has drilled and tapped mounting holes that allow for the adjustment for beams that range in length from 12" (305 mm) to 30" (760 mm). The bearing blocks are flexible so that the force applied to the beam will be vertical only and applied without eccentricity.

Specifications

Loading.	*Center point or third point.*
Blocks.	*Flexible to keep axes normal to specimen surface at compression point.*
Lower Head.	*Adjusts for sample lengths of 12" (305 mm) to 30" (760 mm).*
Upper Head.	*Uses toe hitch design to mount to upper crosshead.*

Ordering Information

Note: Model EI37-5526 Flexure Attachment shown mounted on ACCU-TEK™ 500 series load frame.

EI37-5524. For use on ACCU-TEK™ 350 series compression testers.
EI37-5526. For use on ACCU-TEK™ 500 series compression testers.

ACCU-TEK™ 250 Series Flexure Attachments

ASTM C-78, C-293; AASHTO T-97.

- ***Adjustable loading blocks for testing various lengths of beams.***
- ***Center point or third point loading.***
- ***Meets ASTM and AASHTO specifications.***

The Flexure Attachment for the ACCU-TEK™ 250 series compression tester is designed for rapid conversion of the compression tester into a beam testing machine. The Flexure Attachment can be set for either center or third point loading on various lengths of beams. The transverse blocks are flexible so that at all times during the flexure test their axes are normal to the surface of the specimen.

Specifications

Loading.	*Center point or third point.*
Blocks.	*Flexible to keep axes normal to specimen surface at compression point.*
Lower Head.	*Adjusts for beam lengths of 18", 21", 24", 30" and 36" (457, 533, 610, 762 and 914 mm).*
Upper Head.	*Fastens to upper platen by 4 spools.*
Weight.	*Net 175 lbs. (79 kg).*

Ordering Information

Note: Model EI37-5528 shown mounted on ACCU-TEK™ 250 series load frame.

EI37-5528. For use on ACCU-TEK™ 250 series models, EI36-0650 and EI36-0655.
EI37-5530. For use on ACCU-TEK™ 250 series model, EI36-0657. Includes 20,000 lb (90 kN) capacity test gauge.

Portable Flexural Strength Tester

ASTM C-78.

- ***Rugged high strength steel frame construction.***
- ***Double-action hydraulic hand pump.***
- ***11,000 lbf. (50 kN) capacity.***

This compact flexural and transverse test machine is designed for testing standard 4" and 6" (100 and 150 mm) beam sections. The base of the unit is drilled at regular intervals enabling bearing blocks to be positioned to meet ASTM C-78 and BS-1881 requirements.

The hydraulic pressure is applied by means of a double action hand pump to a hydraulic ram mounted on the upper section of the load frame. A plate attached to the ram holds the upper blocks which can be set to the required center distances relative to the lower blocks. Test loads are indicated on an 8" (200 mm) diameter gauge which is dual calibrated to 11,000 lbf. (50 kN) in 50 lbf. (0.1 kN) graduations.

Specifications	
Blocks.	*1.5" (38 mm) diam. x 6.3" (160 mm) l.*
Vertical Clearance.	*6.3" (160 mm) maximum.*
Ram Travel.	*0.6" (15 mm) maximum.*
Gauge.	*8" (200 mm) diam.; dual scale in lbf. and kN.*
Range.	*1,100 lbf. to 11,000 lbf. (5 to 50 kN).*
Accuracy.	*±1% of indicated reading within range.*
Dimensions.	*20" l. x 14" w. x 43" h. (500 x 350 x 1,090 mm).*
Weight.	*Net 110 lbs. (50 kg).*

Ordering Information

EI37-6040.

Concrete Cylinder Compressometer-Extensometers

ASTM C-469.

- ***Readability to 25 microinches (0.635 mm).***
- ***Measures both axial and diametrical deformation.***
- ***Lightweight aluminum alloy frame construction.***
- ***Stainless steel control rods with machined steel mounting points.***
- ***Available in English or Metric models.***

The Compressometer-Extensometer is designed in accordance with ASTM standards for the measurement of axial and diametrical deformation of molded 6" x 12" (152 x 305 mm) cylinders.

Specifications	
Sample Size.	*6" diam. x 12" l. (152 x 305 mm) cylinder.*
Frame.	*Aluminum-magnesium alloy.*
Contact Points.	*Steel.*
Control Rods.	*Stainless steel.*
Dial Indicators.	*Two included.*
Readability.	*To 25 microinches (0.635mm).*
Weight.	*Net 15 lbs. (6.8 kg).*

Ordering Information

EI37-5625. With English reading dial indicators.
EI37-5626. With Metric reading dial indicators.