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Connect

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INTELLIGENT INTEGRATION

Seamless components for smarter systems

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EDITOR'S NOTE

WELCOME TO THE LATEST EDITION OF CONNECT MAGAZINE

Happy New Year! We're excited to bring you the latest edition of Connect Magazine, your go-to guide in the dynamic world of technology.

In this issue, we're exploring **'Intelligent Integration'** and how it's shaping smarter systems. From our trusted suppliers - Multicomp Pro, Molex, ADI, and Labfacility — to innovative solutions like air leak inspections that boost efficiency and save energy, there's plenty to inspire and inform.

We're deeply grateful for your continued support. Your interest keeps us motivated to bring you relevant insights and helpful resources.

To stay in the loop with future editions and special offers, visit **nz.element14.com/connect-magazine#register-with-us** or sign up for our emails. And if you'd like to share your thoughts, we're always here to listen at **nz-marketing@element14.com**.

Let's continue building smarter systems and brighter futures — TOGETHER!

Mamta Kumari | **Dawn Tan**
Marketing Team
element14

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Intelligent Integration – Seamless Components for Smarter Systems

As we enter 2025, our commitment to driving innovation and delivering value to our partners is getting stronger than ever. In an industry where technological advancements continuously reshape every facet of business, element14 remains **'unwavering in its support of your success'**. With our extensive product portfolio and expertise, we meet today's needs while positioning you for tomorrow's opportunities. We are here to drive your growth and ensure that your business stays ahead of the curve.

This issue highlights our strategic partnership with industry leaders — Multicomp Pro, Molex, ADI, and Labfacility — renowned for their expertise and dedication to advancing technology. From enhanced interconnectivity to sophisticated measurement tools, these solutions are crafted to accelerate your success in a dynamic marketplace.

Don't miss our featured article, **'Boost manufacturing efficiency: How air leak inspections reduce energy wastage'**, offering actionable strategies to optimise energy use, reduce costs, and support sustainability goals.

As we forge ahead into 2025, I look forward to deepening our partnership, exploring milestones, and defining the future of innovation together. I invite you to visit our website and explore the products and resources we've carefully curated to support your goals.

Wishing you a prosperous and innovative 2025!

Weidi Zhu
Vice President Sales
APAC

WEIDI'S PICKS

43645-0400 — CONNECTOR HOUSING

- Fully polarised housings
- Positive latching
- Locking tang on terminal

molex

Order Code
307603902

40% OFF $0.434

Z2-K-1M (IEC) — THERMOCOUPLE

- K-type thermocouple
- Measured temperature maximum: 260°C
- Lead length - Imperial 3.3ft

LABFACILITY TEMPERATURE & PROCESS TECHNOLOGY

Order Code
707615002

40% OFF $8.82

ADUM5020-3BRWZ — DIGITAL ISOLATOR

- Output current: 70mA min
- PWM frequency: 625kHz typ
- Line regulation is 2mV/V typ at (IISO = 50mA, VDDP = 3V to 3.6V)

ANALOG DEVICES AHEAD OF WHAT'S POSSIBLE™

Order Code
403213102

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GBJ1508 — BRIDGE RECTIFIER

- Maximum RMS voltage: 560V
- Maximum DC blocking voltage: 800V
- 60pF typical junction capacitance per element

multicomp PRO

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186152602

40% OFF $2.56

D03124 — DIGITAL MULTIMETER

- 3½ Digit, 2000 count LCD display with backlight
- AC/ DC voltage, AC/DC current, resistance and frequency measurement
- Diode and continuity test functions

DURATOOL

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INTERCONNECT

Discover the future of connectivity. Explore our comprehensive selection of connectors, cables, wires, and custom cable assemblies.

To view more products, scan the QR code or visit:
nz.element14.com/Connect48Interconnect

4831.1210 — PHONE AUDIO CONNECTOR
SCHURTER

- 2-pole straight GST cable audio plug
- 2.5mm diameter
- Nickel-plated solder terminal

5% OFF
$1.68
Order Code **15219702**

15300027 — AUTOMOTIVE CONNECTOR HOUSING
APTIV

- 30A current rating
- Nylon 6.6 (Polyamide 6.6) glass filled body material

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$2.89
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2160000200 — CABLE ASSEMBLY
molex

- No. of positions: 56 Ways
- Product range: NearStack HD 216000 series
- Cable length - Metric: 200mm

20% OFF
$163.66
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64322-1039 — AUTOMOTIVE CONNECTOR CONTACT
molex

- Sealed-connection system using matte-seal technology for CP 0.635 and 1.50mm terminals
- Hybrid-connection system using three different terminal sizes; CP 0.635/CP 1.50/CP 2.80mm terminals
- High-density system due to compact-connector

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$0.277
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BV2 — JAR — BUTT SPLICE
multicomp PRO

- Blue
- Maximum electrical rating: 75°C 600 Volts
- Connector material: Copper plate

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$27.64
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### 50.620 PA/RSW — CABLE GLAND
hylec

- Quick and easy installation without special tools
- 1.4mm wall thickness
- Temperature range: −20 to 100°C

10% OFF
$17.00
Order Code **205611802**

EVO7I-MET/PL-BU — CABLE MANAGEMENT TOOL
HellermannTyton

- Manual tensioning tool with plastic housing
- Length: 191 mm
- ELV compliant

3% OFF
$555.65
Order Code **393134602**

8537-0690 — WIRE SPOOL STORAGE RACK
PRO POWER

- Reel diameter: 254mm
- Material : All welded cold rolled steel
- Depth : 5-7/8" (149mm)

20% OFF
$237.97
Order Code **115383302**

CABLE TREE JUNIOR — CABLE REEL HOLDER STAND
PRO POWER
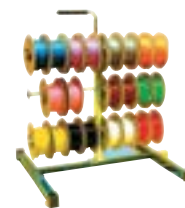
- Constructed from mild steel with a painted base, plated top and carrying handle
- Tree will hold several reels of varying size
- The branches are designed with no pins or clips to enable reels to be changed quickly and simply

20% OFF
$279.37
Order Code **431875402**

2478170-3 — COMPUTER CABLE
TE

- 9 to 9 female to female 6 feet 28 AWG cable assembly
- Contact resistance: 2 Ohms maximum
- Insulation resistance: 1M Ohms minimum

30% OFF
$20.42
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FC681446 — DC POWER CONNECTOR
CLIFF

- 2.5mm diameter pin
- Black colour socket

20% OFF
$2.74
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11-03-0006 — EXTRACTION TOOL
molex

- 2.36mm (.093") diameter series pin
- RoHS compliant: Not applicable

$41.62
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WC-240 — CRIMP TOOL
JST The Quality Connection

· Ratchet release
· Easy readjustment of load
· Contact locator with insulation-stop

20% OFF
$710.79
Order Code
361727002

DGB9F — D SUB CONNECTOR ADAPTER
L-com an INFINITE brand

· DB9 Female to DB9 female adapter
· Fully shielded to protect against EMI (electromagnetic interference)
· Gender changer

20% OFF
$18.90
Order Code
257734102

030-1953-000 — D SUB CONTACT
cannon

· DSUB socket (female) contact
· Copper alloy contact material, gold contact plating
· 20AWG wire gauge, crimp termination style

10% OFF
$1.19
Order Code
242994102

505110-2691 — FPC BOARD CONNECTOR
molex

· Movable terminals ensure more secure contact retention
· Various cable tab and actuator locking styles
· Actuators reinforcements for large circuit sizes

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$1.03
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LAPP

· Offers maximum reliability and optimum strain
· Nickel-plated brass body and cap nut
· Firmly locked polyamide clamp cage

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$3.22
Order Code
303471902

MP012636 — CABLE GLAND
multicomp PRO

· Provided with lock nut, O-ring and sealing nut
· Working temperature range from −20°C to 80°C
· EICEx, ATEX, CCC certificate

50% OFF
$5.42
Order Code
424051902

208658-1201 — HDMI CONNECTOR
molex

· HDMI connector, 2.1 Type A, Receptacle
· Right-angle
· 0.37μm gold (Au) plating

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$3.20
Order Code
437922102

2159801001 — I/O CONNECTOR
molex

· NearStack HD connector
· 56 circuits
· 18 differential pair

30% OFF
$33.30
Order Code
439786402

214345-E — IDC CONNECTOR
ERNI is now part of / TE connectivity

· Female contact
· Pitch spacing: 1.27mm

30% OFF
$6.01
Order Code
417721502

T812106A100CEU — IDC CONNECTOR
Amphenol COMMUNICATIONS SOLUTIONS

· Pitch spacing: 2.54mm
· UL94V-0 Flame-rated glass-reinforce thermoplastic/PBT insulator
· 250VAC/RMS at 60Hz voltage

45% OFF
$0.642
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221523002

PX0686 — IEC POWER CONNECTOR
bulgin

· Straight male connector
· Screw terminals
· Black

40% OFF
$8.18
Order Code
999727002

5580825 — LUG TERMINAL
WE WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

· Tin surface
· Operating temperature: −30°C to 125°C

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$2.66
Order Code
282775202

12.01.1089 — MODULAR CONNECTOR

roline

· UL94V-2 Flammability rating
· 100MΩ Isolation resistance
· Operating temperature: −40°C to 80°C

20% OFF
$10.20

Order Code
244425602

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220957-0001 — MODULAR CONNECTOR — molex

- T1 Industrial Single-Pair Ethernet (SPE) PCB Jack
- Data rate: up to 10.0 Gbps
- Shield type: Ground plane shield

45% OFF
$10.05
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55A1121-24-2/6-9 — MULTIPAIR CABLE — TE

- 100m 2-conductor general purpose screened cable
- Conductor material: Tinned copper
- Wire gauge: 24AWG

$958.56
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SCDP-FX-9 — CONNECTOR ACCESSORY — NEUTRIK

- Easy to assemble
- Allows a high packaging density on the chassis
- IP rating: IP65

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$3.44
Order Code 417139802

H4CMC4DI — PHOTOVOLTAIC / SOLAR CONNECTOR — Amphenol Industrial

- Quick, easy and secure snap lock mating
- Long-term UV- and ozone-resistant
- Highest current rating in the industry

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$2.87
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MP013877 — PHOTOVOLTAIC / SOLAR CONNECTOR — multicomp PRO

- 30A, 1500VDC rating, class A application
- UL94 V-0 flammability class, 4mm² cross sectional area
- Polyphenylene ether (PPE) housing material

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$5.92
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XHP-4 — CONNECTOR HOUSING — JST

- Number of contacts varies from 2 to 16 pins.
- 10mm pitch with 2 circuits and 5mm pitch with 6 circuit housings are also available.
- Nylon 6, UL94V-0 material

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$6.10
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BXH-001T-P0.6 — CONTACT — JST

- Rated voltage is 250VAC/VDC and rated current is 3A
- Suitable for wire size from 28AWG to 22AWG

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$0.061
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53047-0410 — PIN HEADER — molex

- Friction lock
- Reliable terminal
- Polarised mating geometry

20% OFF
$0.274
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MP013598 — PIN HEADER — multicomp PRO

- 5.8mm pitch, rated current is 10A maximum
- Fully waterproof with double latch solution
- True crimp and poke solution

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$3.67
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Industrial Automation
Embracing the latest sensor, computing, and connectivity technologies for smarter operations.

molex

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5915 — CONTACT
ANDERSON POWER

· For use with the PP 75 and SB 50 series connectors
· Suitable for 12 to 10AWG wire size

35% OFF
$3.55
Order Code 257609902

03-06-2044 — CONNECTOR HOUSING
molex

· 1.57mm diameter
· Maximum per contact current is 5A
· Natural colour

$0.631
Order Code 146286902

1757048 — PLUGGABLE TERMINAL BLOCK
PHOENIX CONTACT

· Green colour insulation
· Tin contact surface
· Plug-in direction parallel to the conductor axis

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$5.49
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231-103/026-000 - PLUGGABLE TERMINAL BLOCK
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· Universal connection for all conductor types
· Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
· For 'wire-to-wire' and 'board-to-wire' connections

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HRS

· Phosphor bronze with gold plated contacts
· VSWR of 1.3max at 0 to 3GHz
· Operating temperature range: -40°C to 90°C

35% OFF
$1.04
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SMA2071A1-3GT50G-50 — RF / COAXIAL ADAPTER
Amphenol® RF

· 50Ω Impedance
· SMA plug to SMA plug straight adaptor
· Brass with gold finish

40% OFF
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LAPP

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· Flexible fine wire, tinned copper conductor
· Silicone based insulation

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$103.30
Order Code 128596202

M81044/12-20-9 — WIRE
TE

· Voltage rating is 600V
· 20AWG (19 x 32) stranded tinned copper conductor
· Temperature rating: 150°C

20% OFF
$112.73
Order Code 277855102

166-90220 — SLEEVING
HellermannTyton

· Spiral wrap sleeving
· Sleeving material: PVC
· Length: 30.5 m

20% OFF
$375.11
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NLT4FXX — SPEAKER / LOUDSPEAKER AUDIO CONNECTOR
NEUTRIK

· IEC 61984 certified IEC 6236/-1 compliant
· Uses precise Quick Lock system
· Weatherproof built-in gasket meets IP54 protection class in mated condition

20% OFF
$23.63
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249-116 — SCREWLESS END STOP
WAGO

· Dimension is 6mm x 28.2mm x 45mm (W x H x D)
· TS 35 DIN rail mounting

45% OFF
$1.55
Order Code 401611702

BVA01/Z0000/02 — UN-FILTERED IEC POWER ENTRY MODULE
bulgin

· 10A maximum current
· Integral single fused fuseholder inlet type
· Iec connector mates with PF0011

30% OFF
$18.65
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PSG91207 — USB CABLE
PRO-SIGNAL

· Reversible Type-C connector
· High speed transfer rates up to 480Mb/s
· Supports charging and data transfer

30% OFF
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1002MC-LX-10 — CONVERTER

· Compact, industrial design, high environmental specifications, plug-and-play operation
· N-Ring advanced ring technology, increased networking performance
· Full IEEE 802.3, 802.3u, 802.3z, and 802.3ab compliant

10% OFF
$1,057.20
Order Code 321897802

209.. — BATTERY CONTACT

· Cell size: A, AA, CR2, CR123A
· Nickel finish/plating
· Spring steel material

45% OFF
$2.98
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MP007077 — BATTERY CONTACT

· Contact material: Brass
· Contact plating: Nickel plated contacts
· Battery terminals: Snap contact

45% OFF
$2.69
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MP006250 — FUSE

· Fuse current: 1A
· Voltage rating VAC: 250V
· Breaking capacity current AC: 100A

45% OFF
$0.171
Order Code 360597302

BK1-S500-1-R — FUSE

· Blow characteristic– Fast acting
· Voltage rating VAC–250V
· Fuse size Imperial–0.2" x 0.79"

40% OFF
$2.83
Order Code 365049302

021601.6MXP — FUSE

· CE Mark indicates compliance with Low-voltage and RoHS directives
· Available in cartridge and axial lead form
· RoHS compliant and lead-free

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$1.14
Order Code 135454202

0299050.ZXNV — FUSE

· MAXI-series 50A, 32V time delay fuse
· 0.0011Ω Cold resistance
· 1000A at 32VDC Interrupting rating

20% OFF
$2.55
Order Code 994317002

DIA53S72420A — CURRENT MONITORING RELAY

· 2-Wire connection
· Self powered
· 2 - 20A AC input range

30% OFF
$105.48
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OM-HL-EH-TC-K-CAL — DATA LOGGER

· Measurement range: –200 to 1370°C (–328 to 2498°F)
· Support K, J, E, T, R, S, N, B type thermocouple
· Each channel store up to 8,6000 data points

3% OFF
$848.09
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YW1B-V4E02R — EMERGENCY STOP SWITCH

· 22mm panel hole diameter
· IP65 protection level
· Screw terminals

40% OFF
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E69C06B — ENCODER COUPLING

· Easy shaft alignment when mounting
· Low torsion rigidity and thus not suitable for high resolution
· 15 mm external diameter

20% OFF
$39.61
Order Code 160303302

RMA-21-SSV — AIR FLOWMETER

· 51mm scale, stainless steel valve
· Flowmeter range from 1-10LPM air
· Temperature limit of 130°F (54°C)

$141.95
Order Code 426289102

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59-111 — INDUSTRIAL PUSHBUTTON SWITCH
ITW Switches
Sensors, Switches, Electronic Controls

· Wide temperature range up to 125°C
· Panel sealed to IP67
· Overboot for protection against icing

40% OFF
$9.70
Order Code 51931502

1455T1601BK — METAL ENCLOSURE
HAMMOND MANUFACTURING

· Designed to house P.C. boards or for equipment interfacing
· Sized for standard Eurocards
· P.C. boards mount horizontally by sliding into internal slots extruded into the enclosure body

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19N503L63 — MICROSWITCH
ITW Switches
Sensors, Switches, Electronic Controls

· Fully sealed option to IP67
· Wide temperature range from −40°C to +125°C
· Non flammable switch to UL94-V0 rated

20% OFF
$7.67
Order Code 62472002

1SX1-T — MICROSWITCH
Honeywell

· Long operating life
· Elongated mounting hole for easier, more accurate mounting
· MIL-PRF-8805 qualified

10% OFF
$41.46
Order Code 145433702

D2HW-BR211H — MICROSWITCH
OMRON

· Extra-long stroke even without levers (1.4mm OT reference value)
· Case dimensions 22% smaller than conventional models
· Post or screw mounting options

20% OFF
$3.52
Order Code 206969302

20.22.9.024.0000 — GENERAL PURPOSE RELAY
finder SWITCH TO THE FUTURE

· 4kV (1.2/50µs) Isolation, coil contacts
· Width: 17.5mm
· Identification label

20% OFF
$47.72
Order Code 116929002

22.23.9.012.4000 — POWER RELAY
finder SWITCH TO THE FUTURE

· 4kV (1.2/50µs) Isolation, coil contacts
· 17.5mm Width
· Identification label

20% OFF
$51.50
Order Code 116929902

HDR-15-24 — AC/DC DIN RAIL POWER SUPPLY
MEAN WELL

· Short circuit, overload and over voltage protection
· Ultra-slim 17.5mm design
· LED Indicator for power on

5% OFF
$23.06
Order Code 281563302

7TAI029700R0011 — QUICK DISCONNECT TERMINAL
ABB

· Female Disconnect
· Metallic electro tin plated finish
· UL94V-0 Flammability rating

5% OFF
$52.18
Order Code 120818602

4ELM4 — EARTH STRAP
DELTRON Enclosures

· Cable length - Metric: 210 mm
· Jacket Colour: Green, Yellow

45% OFF
$3.68
Order Code 241899702

BLD6343 — ENCLOSURE COOLING
EB

· Black colour
· Resistant to alcohols, ethers, hydrocarbons, weak acids and bases
· Operating temperature range: −40 to 75°C

20% OFF
$13.37
Order Code 56153802

METSEPM5110 — POWER METER
Life Is On | Schneider Electric

· Easy to install and operate
· Easy circuit breaker monitoring and control
· Direct metering of neutral current

40% OFF
$792.72
Order Code 283542102

Q8P1CXXG24E — LED PANEL MOUNT INDICATOR

APEM an IDEC company

· Gold faston terminal denotes anode (+), silver terminal denotes cathode (−)
· Pin and wire options are epoxy sealed at the rear of the bezels
· Tricolour LED has red and green LEDs when both are connected, yellow is produced

40% OFF
$13.33

Order Code 249476702

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PT100 PROBE 3.0 X 50MM 1M LEAD — RTD SENSOR
LABFACILITY

- Pt100 element to IEC 751 class B
- Temperature range: -50°C to 200°C
- Insulated element in a 3.0mm diameter 316 stainless steel probe construction

40% OFF
$58.23
Order Code
242030102

AM-K-PCB — THERMOCOUPLE CONNECTOR
LABFACILITY

- Specially designed for PCB mounting
- Provision for cold junction sensor
- Maximum continuous operating temperature 220°C

45% OFF
$5.65
Order Code
234714002

XF-321-FAR — THERMOCOUPLE
LABFACILITY

- Thermocouple type K to IEC 60584
- Tip temperature range: -75°C to 250°C
- Twin, twist pair, PTFE insulated over 1/0.2mm conductors, 1 metre wire

45% OFF
$17.24
Order Code
410074802

WK-150/10M (IEC) — THERMOCOUPLE WIRE
LABFACILITY

- Tolerance class 2
- Waterproof and very flexible

15% OFF
$27.84
Order Code
708230702

010010TD — RTD SENSOR
LABFACILITY

- Tubular ceramic encased Pt100 elements
- Thin film Pt100 element housed in ceramic sheath, 5mm dia x 35mm long
- Class B IEC 751 approved

30% OFF
$45.57
Order Code
725574302

DM-303 — RTD SENSOR
LABFACILITY

- Class A tolerance
- 10mm tails
- 0.1s thermal response

30% OFF
$7.62
Order Code
128966702

P100/2528/B — RTD SENSOR
LABFACILITY

- Single element, Pt100 (100 ohm at 0°C) sensor type
- 0.003°C/mW self heating
- Temperature range: -200°C to 650°C

40% OFF
$22.87
Order Code
54110202

AM-K-M — THERMOCOUPLE CONNECTOR
LABFACILITY

- Yellow colour
- Flat pins
- Continuous operating temperature: 220°C

45% OFF
$5.88
Order Code
234711602

Z2-T-5M (IEC) — THERMOCOUPLE
LABFACILITY

- Type T fine gauge thermocouple
- Fast response
- 5m long PTFE PFA insulated twin-twisted lead

40% OFF
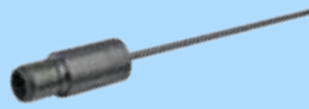## $19.63
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163348402

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Seamless components for smarter systems

HEDS-5120#A06 — ENCODER CODE WHEEL
BROADCOM connecting everything

· 500 Counts per revolution
· 1/4" Shaft diameter
· 30000RPM Velocity

$26.79

Order Code
165487202

26ASD22-01-1-AJS — ROTARY ENCODER
GRAYHILL

· Adjustable stops
· Angle of throw is 22.5°
· Silicone rubber panel seal

20% OFF
$38.52

Order Code
119040202

N31221005 — SWITCH SEALING BOOT
APEM an IDEC company

· For use with pushbutton switches
· Suitable for 9500 series Ø4 x 0.70 (.157 x 0.70) bushing

45% OFF
$16.54

Order Code
108252102

N36211005 — SWITCH SEALING BOOT
APEM an IDEC company

· For use with 1200, 4700 and 4800 Series
· Suitable for 1200, 4700 and 4800 series Ø12 x 0.75 SI (.472x.075 IS) bushing.

45% OFF
$14.27

Order Code
108663802

YL50/D50/R/RF/WR — BEACON / SOUNDER
CS Clifford & Snell

· Red flame enclosure
· Lens made from flame-retardant polycarbonate plastic
· Flame-retardant ABS plastic enclosure

30% OFF
$356.75

Order Code
240166202

4650N — AC AXIAL FAN
ebm papst

· Nominal voltage of 230VAC
· 2650rpm speed
· 19W power consumption

30% OFF
$49.87

Order Code
959971102

4656Z — AC AXIAL FAN
ebm papst

· High product quality
· Can be operated at 50 or 60Hz
· IP20 protection rating

30% OFF
$66.14

Order Code
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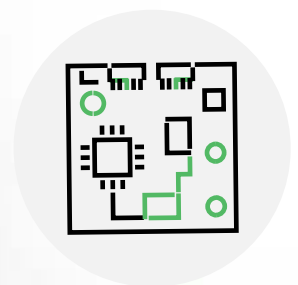
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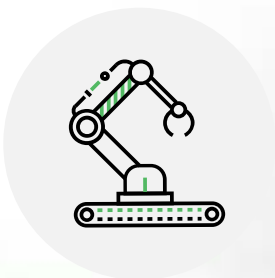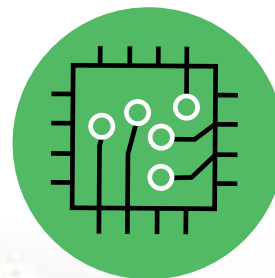
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BOOST MANUFACTURING EFFICIENCY - HOW AIR LEAK INSPECTIONS REDUCE ENERGY WASTAGE

Author: element14 Technical Marketing Team

Pneumatic, or compressed air-driven, systems are used in a wide range of applications, including automated industrial equipment, processes, and motion control across various industries. However, compressed-air systems frequently suffer from leakage, leading to energy waste, reduced productivity, increased downtime, and a higher carbon footprint.

Compressed-air systems consume around 10% of all industrial electrical consumption, or 8.8 TWh each year, resulting in CO_2 emissions of 3,100 kt/year (Source: Department for Energy Security and Net Zero, UK). Addressing air leak issues is essential for improving energy efficiency, sustainability, and productivity. This article highlights the importance of air leak inspections and how advanced air leak detection equipment assists in locating and repairing leaks.

Causes of compressed air leaks

Air leaks in compressed air systems can result from various design, maintenance, and operation factors. Common causes include:

- **Worn or damaged components:** Continuous use leads to wear and tear on seals, gaskets, hoses, and fittings. Over time, these parts can deteriorate and develop gaps or cracks that allow air to escape. Seals and gaskets are also crucial for ensuring airtight connections, but they can become brittle or worn down, especially in high-pressure environments.
- **Improper installation:** Incorrect pipe fittings, joints, or coupling assembly can leave gaps or misalignments that allow air to escape. Poorly routed piping and installed double-ferrule compression fittings are particularly prone to leaks.
- **Poor maintenance:** Neglecting routine maintenance or delaying minor repairs on components like hoses, valves, pipes, joints, etc., can also lead to significant air loss.

- **Mechanical damages and environmental effects:** Vibrations from pneumatic systems, especially those with reciprocating compressors, can damage pipes and fittings. Repeated heating and cooling cycles can cause materials to expand and contract, leading to cracks or loosening of joints. Environmental factors such as moisture, extreme temperatures, or chemical exposure can cause corrosion, increasing the risks of leaks.

Calculating the cost associated with compressed air leaks:

Compressed air systems are present in almost every industrial facility, and leaks are inevitable. In a well-maintained system, the air leakage percentage should remain below 10%, but poorly maintained systems can lose between 20% and 30% of their air power. In some extreme cases, more than 80% of the air can be lost through leaks.

Compressed air systems are responsible for approximately $5 billion annually in energy expenses, which represents a significant amount of wasted energy and money. In addition to higher energy costs, air leaks negatively affect compressed air users by reducing productivity and shortening equipment lifespan. So, it is necessary to estimate the amount of leakage in the pneumatic system for preventive actions. The energy cost for each leak can be calculated using the following formula:

Annual cost of leaks = Leakage rate (cfm) X kW/cfm X operating hours X $/kWh

For compressors equipped with start/stop controls, estimating the amount of leakage in the system can be done quickly. This process involves starting the compressor without demands on the system and ensuring that all air-operated end-use equipment is turned off.

Multiple measurements are taken to calculate the average time the compressor needs to load and unload. The compressor will cycle on and off due to air leaks, which cause a drop in pressure as air escapes. The total leakage, expressed as a percentage, can then be determined using the following formula:

Leakage (%) = ((T × 100))/((T + t))

Where: T = on-load time (minutes)

t = off-load time (minutes)

Leakage may be estimated in systems that use different control strategies if a pressure gauge is positioned downstream of the receiver. This approach involves estimating the system's total volume, including any downstream secondary air receivers, air mains, and piping (V, in cubic feet). The system should be brought to its normal operating pressure (P1, in psig) and allowed to return to this state. Afterwards, the time (T, in minutes) it takes for the system to drop to a lower pressure (P2, in psig), typically around half of the operating pressure, should be measured. The leakage rate can then be calculated using these measurements.

Leakage (cfm free air) = ((V × (P1–P2))/(T × 14.7) × 1.25

A multiplying factor of 1.25 is used to adjust for leakage to the normal system pressure, which reduces leakage when the system pressure decreases. If leakage exceeds 10%, it suggests a scope for system improvement. It is recommended that these tests be conducted every quarter as part of a routine leak detection and repair program.

Detecting air leaks:

Detecting air leaks in the compressor is essential for energy conservation and regular maintenance. The following methods are commonly used for air leak detection:

- **Listening:** This is the simplest and the most cost-effective method, relying on the ability to hear a hissing or whistling sound from the pneumatic line. However, this method only works for large leaks in easily accessible areas. It can be challenging to use in noisy environments, limiting its scope.
- **Soap water test:** This method involves applying soapy water to suspected leak points. If a leak is present, soap bubbles will form at the location of the air leakage. Although this method is simple, it is time-consuming and needs to provide more information on the size or volume of the leak.
- **Acoustic method:** The most effective and efficient way to detect air leaks is using acoustic imaging cameras. These cameras can identify leaks in various equipment, including pipes, valves, and pneumatic tools, even in noisy or hard-to-reach areas. Acoustic imaging allows testing while equipment runs and provides fast, accurate results.

Acoustic imaging process:

When pressurized gas leaks, it moves from a high-pressure laminar flow toward low-pressure turbulence, creating a vortex. As the vortex breaks, it radiates ultrasonic energy. Acoustic imaging cameras, equipped with an array of tiny, super-sensitive microphones, capture this energy and create a sound spectrum based on decibel levels per frequency. An algorithm then overlays a sound image onto a visual image, pinpointing the location and size of the leak. This allows for real-time analysis, enabling manufacturers to identify and fix leaks quickly.
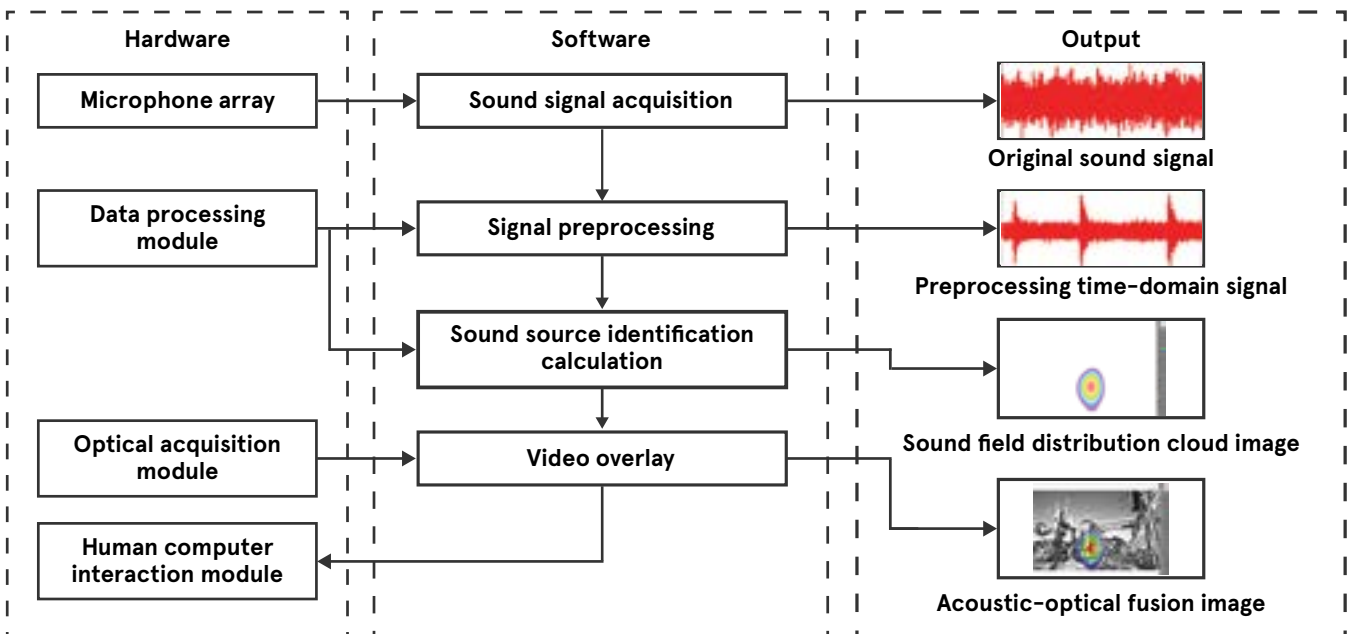

Figure 1: Functional diagram of acoustic imaging system

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· Special alloy steel construction

10% OFF
$75.85
Order Code 437851502

T3973 160 — CABLE CUTTER
CK

· Overall length: 160mm
· For use with: copper and aluminium cables
· Cutting capacity max: 9mm

10% OFF
$75.85
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Seamless components for smarter systems

500-196-30 — DIGITAL CALIPER — Mitutoyo

· Flat depth bar, thumb roller
· ±0.001" max permissible error (E MPE)
· ±0.002" maximum permissible error (S MPE)

10% OFF
$338.76
Order Code 152121602

76991500 — DIGITAL CALIPER — Hilka

· Durable stainless steel construction
· Zero calibration switch with automatic on/off
· Easy to read LCD screen

10% OFF
$39.98
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500-184-30 — DIGITAL CALLIPER — Mitutoyo

· Range from 0-150mm
· Character height: 9mm (alleviation of fatigue with the high-contrast LCD)
· Slider provides smooth, stable and comfortable operation

20% OFF
$286.77
Order Code 283171802

05020234001 — COMBINATION WRENCH SET — Wera

· With its strong magnet, the rail holds securely to metal surfaces
· Clips hold the tools perfectly
· Especially suitable for tight spaces

Image for illustration only; see product description.

20% OFF
$114.97
Order Code 437788702

DM2.5-CWA2WAS100BS4463 — CRINKLE WASHER — TR Fastenings

· Internal diameter:2.8mm
· External diameter: 5.8mm
· Fastener material: Stainless Steel A2

5% OFF
$3.70
Order Code 250599602

MP740692 — DESOLDERING BRAID — multicomp PRO

· Copper 90%, Rosin 10%
· Responds up to 50% faster than conventional braids
· Length:1.5m

45% OFF
$1.57
Order Code 364996602

MP740693 — DESOLDERING BRAID — multicomp PRO

· Pure copper braid construction
· Coated with rosin flux on the surface
· Quickly and thoroughly remove solder

45% OFF
$2.02
Order Code 364996702

7874B — DESOLDERING PUMP — Weller

· Antistatic housing
· Facilitates accurate printed circuit repair and cleaning
· Can be used with soldering iron

3% OFF
$29.26
Order Code 41902302

8PK-366D — F — DESOLDERING PUMP — DURATOOL

· Rugged metal construction
· Antistatic tip
· Duratool products are rated 4.1 out of 5 stars

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$7.56
Order Code 312563402

885374510 — FIBRE OPTIC CABLE — molex

· Fibre optic connector A: LC Duplex
· Product range: 88537 series
· Fibre type: Multimode

30% OFF
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71201211 — HEAT SHRINK TUBING — WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

· WA-HST polyolefin heat shrink tube with 2:1 shrink ratio
· Black colour heat shrink tube
· Operating temperature range from −55 to +105°C

30% OFF
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71201616 — HEAT SHRINK TUBING — WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

· 15kV/mm withstanding voltage
· Shrink tubing / boot material-PO (Polyolefin)
· Modification of length after shrinking ±5%

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$1.82
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ECLIPSE MAGNETICS

· Durable magnet material in a white coloured plastic shell
· Ideal for display or holding applications on noticeboards, cabinets, fridges etc
· 20mm diameter

20% OFF
$8.01

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453131402

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VDV226-005 — CRIMP TOOL
KLEIN TOOLS For Professionals... Since 1857

- Modular crimp-conn installation tool for voice and data application with Pass-Thru RJ45 conn plug
- On-tool wiring guide helps minimise wiring errors
- Fast, reliable RJ45 Pass-Thru™ modular crimper installs connectors for data applications

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63811-1000 — CRIMP TOOL
molex

- Ergonomic soft grip handles for comfortable crimping with small handle spread
- Accepts material thicknesses of 0.15mm to 0.40mm and conductor barrel length of 2mm to 3.5mm

10% OFF
$110.95
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HT-214D — CRIMP TOOL
multicomp PRO

- Length:241mm
- Weight:495g
- Black oxide finishing

20% OFF
$21.48
Order Code **312633002**

05020233001 — COMBINATION WRENCH SET
Wera

- With its strong magnet, the rail holds securely to metal surfaces, can also be bolted to the wall
- Clips hold the tools perfectly, especially suitable for tight spaces
- Special open-end geometry expands the placement possibilities of the tool

Image for illustration only; see product description.

20% OFF
$262.40
Order Code **437788502**

PVC TAPE 1920B — ELECTRICAL INSULATION TAPE
PRO POWER

- Tested in accordance with the requirements of BS 3924 (1980) CAT 2
- Total tape thickness: 5.9 mil (0.15 mm)
- Tape backing material PVC (Polyvinyl Chloride)

45% OFF
$2.43
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1061152100 — FIBER OPTIC ADAPTER
molex

- Convert from fibre optic connector: LC duplex
- Convert from gender: jack
- Product range: 106115 series

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$41.03
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T3203 022 — HOLE SAW

- High tension spring for rapid slug ejection
- 22mm width, 22mm depth, 90mm height

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TZE-131 — LABEL PRINTER TAPE
brother at your side

- 12mm wide, 8m long
- Black text on clear label
- High-quality Brother genuine supplies, tested to be resistant to fading, water, chemicals, abrasion and temperature extremes

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$25.45
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TZE-241 — LABEL PRINTER TAPE
brother at your side

- 18mm wide, 8m long
- Compatible with Brother P-touch label printers
- Tape material: PET (Polyester) film

20% OFF
$33.90
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K7HP.IT — TWEEZER KIT
ideal-tek

- 180.0mm OAL, 105.0mm width, 16.0mm height
- No of tweezers: 7
- Tweezer body material: Anti magnetic, anti acid stainless

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$338.84
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DM4-PWFI-BG10 — WASHER
TR Fastenings

- Internal diameter: 4.4mm
- Fastener material: fibre
- External diameter: 9mm

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$4.53
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STTC-138 — SOLDERING IRON TIP
METCAL

- 1,5 mm tip/ nozzle width
- 9,9 mm tip/ nozzle length
- Style: chisel, cone 30°

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MP009732 — WIRE STRIPPER
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- Making body: Injection molding
- Shape of cutting edge: Cross cut
- Color of body: Black, red

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$26.31

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ROHDE & SCHWARZ

- Simultaneous display of 3 measurements, e.g. DC + AC + Statistics
- Up to 200 measurements per second
- DC basic accuracy 0,015%

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- Triple output model with two channels up to 30V and one channel up to 6V
- Low output ripple and noise
- Excellent programming / readback accuracy

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72-7730A — DIGITAL MULTIMETER
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- 100KHz bandwidth
- Auto ranging
- Duty cycle: 10% to 90%

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MP731065 — DIGITAL MULTIMETER
multicomp PRO

- High precision
- Compact design
- True RMS

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MP721075 — DIGITAL OSCILLOSCOPE
multicomp PRO

- Vertical resolution (A/D) max: 8bits
- Bandwidth: 100MHz
- Sample rate: 1GS/s

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MP720024 EU-UK — DIGITAL OSCILLOSCOPE
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- 12 bits high vertical resolution
- 8" large clear TFT display (800x600)
- Ultra-thin body design, less space accommodation

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BK880 — LCR METER
BK PRECISION

- 40,000 counts resolution on primary and 10,000 counts resolution on secondary display
- L, C, R, and Z (BK879B & BK880 only) primary measurements
- Automatic calculation of secondary parameters D, Q, Theta, ESR (Theta/ESR for 879B &880 only), and DCR (BK880 only)

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multicomp PRO

- Supplied with a battery, test clip, holster
- Inductance measure max: 20H
- Test frequency max: 1kHz

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pico Technology

- Bandwidth: DC to 25 MHz (–3 dB)
- Attenuation ranges: 10:1 / 100:1
- DC accuracy: ±2%

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$685.27
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PICOSCOPE 3403D — PC USB OSCILLOSCOPE
pico Technology

- 64MS buffer memory
- 100000 waveforms per second
- USB 3.0 connected and powered

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MP730679 — HANDHELD DIGITAL MULTIMETER
multicomp PRO

- Large, backlit LCD screen with 22,000 count display
- High resolution analogue pointer
- Full scale overload protection

20% OFF
$194.33
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MP720780 — HANDHELD DIGITAL STORAGE OSCILLOSCOPE
multicomp PRO

- Digital multimeter function offers 4½ digits and V, A, ohm, farad, diode, continuity testing modes
- 250MSa/s sample rate
- Sample & peak detect acquisition model

20% OFF
$207.93
Order Code 370326302

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PP222 — DATA LOGGER
pico Technology

- Measures and records up to eight thermocouples at once
- 20bit resolution and high accuracy
- Supports all popular thermocouple types

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$681.01
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EL-USB-2 — DATA LOGGER
LASCAR electronics

- Environmental protection to IP67
- Status indication via red and green LEDs
- 4 user-programmable alarms

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$110.20
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STÄUBLI

- 30VAC voltage rating
- Contact termination type: Solder
- Current rating: 10A

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$13.29
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931804100 — BANANA TEST CONNECTOR
HIRSCHMANN

- 4 mm system
- Sockets
- Solder connection

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66.9328-21 — BANANA TEST CONNECTOR
STÄUBLI

- Spring-loaded MULTILAM
- Contact plating: Nickel plated contacts
- Product range: XZGL-425 series

40% OFF
$10.70
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930176100 — BINDING POST
HIRSCHMANN

- 60VDC rated voltage
- 32A rated current
- PF housing material

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TP1 BLACK — BINDING POST
CLIFF

- Non touch proof
- Models available in different colours
- Rated current of 15A

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MP770802 — BNC BREAKOUT
multicomp PRO

- BNC test lead
- BNC jack to hook clips
- 60V voltage rating

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180390011 — CABLE CONTINUITY TESTER
molex

- Continuously-sequencing LED display provides a diagnostic readout
- Ergonomically designed hand-held unit is lightweight, rugged, and impact-resistant
- 9V alkaline battery included

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MP760862 — CLAMP-METER
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- 3 in 1 mini clamp meter with 2400 count LCD display
- 18mm jaw opening
- Manual function select and auto-ranging

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MP761076 — CLAMP METER
multicomp PRO

- VFC (UT210E/UT211B)
- MAX/MIN (UT210B/C)
- Auto range

20% OFF
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72-2985 — CLAMP METER
multicomp PRO

- DC voltage range of 200mV/2V/20V/200V/600V
- AC voltage range of 2V/20V/200V/600V
- AC current range from 2A/20A/100A

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$92.91
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P100-H-250-G — CONTACT
multicomp

- 6.3mm full travel
- Spring pressure: 250g
- Current rating : 3A

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$0.560
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MP770279 — ALLIGATOR CLIP TEST LEAD
multicomp PRO

· 30V AC/60V DC, 10A rated
· Insulator colour: red
· Lead length - metric length: 305mm

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$3.62
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MP770275 — ALLIGATOR CLIP TO BANANA PLUG TEST LEAD
multicomp PRO

· 30V AC/60V DC, 5A rated
· Lead length - metric: 610mm
· Banana plug type: 4mm Stackable banana plug

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BU-60 — CROCODILE CLIP
MUELLER.

· Compatible with all shrouded, unshrouded and retractable 0.16" (4mm) banana plugs
· Can also be attached by solder or crimp connection
· Mates with BU-62 series PVC insulators

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· Extends the current ranges for all multimeters
· 200A AC current
· Clamp-on adaptor with voltage output

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TENMA

· Battery test, automatic test, OPP test, OCP test functions
· Dynamic mode up to 10kHz
· Resolution of voltage and current 0.1mV/0.1mA

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MP701077 — DECADE BOX
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· Capacitance ranges: 0.1nF to 11.111uF (0.1nF steps)
· Internal capacitance: 0.05nF
· Voltage limit: 50V DC

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MP701033 — DECADE BOX
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· Resistance ranges: 1Ω to 11Ω, 111Ω, 111Ω in 1Ω steps
· Internal resistance: approx. 0.3Ω
· Power: 0.3W resistors

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GPT-9802 — ELECTRICAL SAFETY TESTER
GW INSTEK

· Provides solid foundation for reliable, safe and practical safety compliance testing
· 0.050KV to 5.000KV AC withstanding, 0.050KV to 6.000KV DC withstanding
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ESR70 — ESR+ CAPACITANCE AND ESR METER
PEAK electronic design ltd

· 10x faster capacitance measurement for large capacitors
· Enhanced user options system
· New triple-slope measurement system to vastly reduce the influence of parallel resistance and/or leakage current on capacitance measurements

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· CAT II 300V safety standards
· 6 digit high precision frequency meter compatible with TTL level signal
· Easy to use operating panel

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SFG-1013 — FUNCTION GENERATOR
GW INSTEK

· 6 digit LED display
· DDS technology and FPGA design
· 0.1Hz to 3MHz frequency range

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· 45hz to 65hz frequency range
· 1V resolution

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· Auto ranging

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- Provides 1.4dB accuracy
- Newly design shape
- High performance

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NGU401COM — SOURCE MEASURE UNIT SMU
ROHDE & SCHWARZ

- It can act as bipolar power supply or bipolar electronic load
- It comes with a modulation I/P to connect an arbitrary generator enabling it to act as an AC source
- Fast load regulation

$13,574.67

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72-14565 — TEST ACCESSORY
TENMA

- Accessory type: K-Type thermocouple adaptor
- For use with digital multimeters
- Converts the K-type plug to dual

20% OFF

$0.942

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347918602

BU-24APN — TEST CLIP
MUELLER

- Length: 72mm
- Jaw opening max: 19mm
- Connector type: Grounding clip

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$2.61

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283406402

571-0500 — TEST JACK
DELTRON Components

- 10mΩ maximum contact resistance
- Current rating: 10A
- For use with 4mm Dia test plugs

20% OFF

$1.86

Order Code
149459302

TEN01014 — TEST LEAD SET
TENMA

- Voltage rating: 30V AC, 60V DC
- Length: approx 850mm

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$2.33

Order Code
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Pomona ELECTRONICS

- Black and red probe with sharp point gold pogo pin tips
- 1000Vrms maximum operating voltage
- Miniature probe is the perfect size for probing tiny, high- density circuits

10% OFF

$70.63

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KA01 — THERMOCOUPLE
TME

- PTFE fine wire sensors
- Class 1 material

30% OFF

$10.76

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CAMBION

- 16AWG wire size
- 0.56mohm contact resistance
- 3.5A rated current

40% OFF

$0.739

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Tess Turner

Marketing Manager
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multicomp PRO

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· 800 × 480 resolution LCD with 16000k colours
· Interface includes COM1: RS485/RS422; COM2: RS232

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MP-335PAS-1 — PANEL METER
multicomp PRO

· 4-digit programmable projection
· Fast stabilization period within 2mins
· 14mm digit height user-friendly panel

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$274.48
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MP011734 — HEATER
multicomp PRO

· 15W heating capacity
· PTC resistor, self regulating heating element
· Anodized aluminium profile body

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$51.39
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MP3238.230 — ENCLOSURE COOLING
multicomp PRO

· Frame size of 148mm
· Impeded air flow of 65-85m3/h
· Powered by self-starting shaded pole motor

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MP-008 — SWITCH
multicomp PRO

· 8-port 10/100Mbps Ethernet switch
· Power input of +5V to +30VDC
· Wide temperature range from −10°C to +60°C

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$136.40
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MP-C40 — AUTOMATIC TRANSFER SW CONTROLLER
multicomp PRO

· Under/over voltage protection
· Phase sequence/ unbalanced current protection
· Configurable timer for generator start, transfer delay, restore delay, and generator cooling time

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$452.85
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MP011250 — ROCKER SWITCH
multicomp PRO

· Contact voltage VAC: 250V
· Switch mounting: Panel mount
· Switch terminals: Quick connect

40% OFF
$6.19
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MP-AP2E-BTE01R — EMERGENCY STOP SWITCH
multicomp PRO

· Mechanical lifetime: 300,000 cycles
· Rotate release switch with SPST configuration
· Operating temperature range: −25°C to 70°C

40% OFF
$22.13
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· Easy mounting and fixing, fitted with wire leads, compact size
· Compact housing, mechanically protected
· UL approval, replaces various competitors types

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· SPST, 2P, maintained, anti vandal switch
· 6A 125/250V, 6A 3-48VDC ratings
· 50mohm (maximum) initial contact resistance

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MP-D16LMT1-1CB — INDUSTRIAL PUSHBUTTON SWITCH
multicomp PRO

· IP rating: IP40
· Switch terminals: Solder lug
· Pushbutton actuator style: Rectangular

40% OFF
$19.99
Order Code 420828702

MP-RR036 — ROCKER SWITCH
multicomp PRO

· 12VDC to 24VDC rating, RED LED 12/24VDC lamp
· Switch action of ON-OFF, SPST, 3P, LED illumination
· 30Mohm maximum contact resistance, 100Mohm minimum insulation resistance (500VDC)

40% OFF
$3.00
Order Code 426143102

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MPADP16B4-0R0-0240 — BUZZER
multicomp PRO

- Intermittent tone, soldering type / plug in type terminal
- 3A current rating, supply voltage range from 12 to 24VDC
- 80db sound pressure, 1000hr electrical lifetime

30% OFF

$26.92

Order Code
437797902

MP-CMA5GH-S-DC5V-A — AUTOMOTIVE RELAY
multicomp PRO

- Contact material: Silver alloy
- Insulation resistance : Min.100MΩ at 500V DC
- Operating temperature : −40°C to +85°C

45% OFF

$1.82

Order Code
420861502

MPAD06NF-2JR24V — LED PANEL MOUNT INDICATOR
multicomp PRO

- LED colour: Red
- Operating voltage: 24V
- IP / NEMA rating: IP65

40% OFF

$3.99

Order Code
434974302

ABS-210-RC — SPEAKER
multicomp PRO

- Rated impedance is 8ohm
- Nominal power is 1W
- Frequency range: 0Hz to 20KHz

30% OFF

$3.35

Order Code
130002202

MCP00022 — WIRE
multicomp PRO

- Flexible, PVC insulated wire
- Tinned, annealed, copper conductors

40% OFF

$17.27

Order Code
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MCL053MD — LED
multicomp PRO

- 85mW power dissipation
- Operating temperature range: −40 to +85°C

45% OFF

$0.125

Order Code
158113702

GW-151641 — MAINS POWER CORD
multicomp PRO

- Jacket colour : Black
- Number of conductors : 3
- Insulation(Single or Double) : Single

40% OFF

$10.53

Order Code
250579102

5501-09SA-02-F1 — D SUB CONNECTOR
multicomp PRO

- Current rating is 3A AC/DC
- Voltage rating is 250VAC/DC
- Operating temperature range from −40°C to 85°C

40% OFF

$0.353

Order Code
108467802

MP011359 — TRIPOD MOUNT
multicomp PRO

- Pipe material: Galvanized steel
- Fixing plate: Cold-rolled steel
- Pipe diameter and thickness: Ø32 × T1.5

20% OFF

$44.24

Order Code
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Global Marketing
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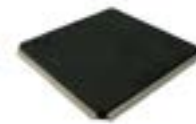## LPC5534JBD100E — ARM MCU

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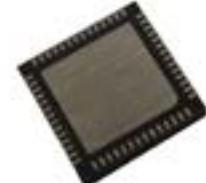
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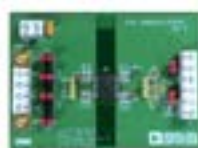## CY8CKIT-062S4 — EMBEDDED DEVELOPMENT KIT
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