



**ACTIVE INNOVATION
PRODUCT DATA SHEET**

TMAC® Prufball ZAP 350 Analogue

ELECTRICAL-INDUSTRIAL | TOOLS-TECHNOLOGIES
TMAC®
THEW & McCANN GROUP

The test ball ZAP 350 supplied by TMAC is the ideal testing tool for energy suppliers. It combines a robust voltage tester with a safe test tool for a quick start-up test when commissioning electricity meters. The additional 350 W load is securely and waterproof integrated into our patented connection line. Thus, tests can be carried out safely in any environment.

FEATURES

Voltage tester:

- Precise display of the voltage 50 V – 500 V AC / DC
- Resistant to voltage – CAT IV 300 V – VDE certified
- Clear LED indicator for dangerous voltage
- 350 W additional load for fast startup test of electricity meters and detection of interference voltages
- Full voltage indication without battery – maintenance free precise, interference-free moving coil measuring unit with direct display

Continuity tester:

- Fast continuity tester

Phase and phase sequence tester:

- phase tester with red LED indicator
- rotating field tester with LED display left / right
- controller-monitored test with error detection to avoid false indications
- phase and phase sequence tests can also be performed with insulating gloves

More functions:

- safety housing made of solid rubber extremely shockproof
- test electrodes with thread for screwing on accessories
- easy operation
- additional load with thermal and overvoltage protection
- extremely stable housing, even in cold environment
- IP 65 – waterproof



	ZAP 350	ZAP 350L	ZAP 1050L
Nominal voltage	50 - 500 V AC / DC		
Dispaly range	20 - 500 V AC / DC	24 - 500 V AC / DC	
Display	analogue - pointer	digital - LCD	
Continuity measurement	no		
Continuity tester	yes		
Continuity tester with sound	no		
Frequency	DC / 15 - 500 Hz	DC / 15 - 2000 Hz	
Single pole outer conductor test (Phase)	yes		
Phase sequence test	yes		
Phase sequence test for IT-power grids without earth potential	no		
Power supply	maintenance-free - voltage test without battery, continuity test with Long-Life lithium battery		
Overvoltage category	CAT IV 300 V IEC 60664-1 (VDE 0110)	CAT IV 500 V IEC 60664-1 (VDE 0110)	
Protection category	IP 65		
VDE GS certification in accordance with IEC 61243-3	no		
Measuring point illumination	no		
Additional load and 30 mA RCD-tripping	350 W	350 W	1050 W
Load indication by	LED	LCD	
Adjustable electrode length 4 or 15 mm	yes, by protective cap		
Art.-No.	81314	81315	81316
Product Dimensions and weight	274 x 75 x 47 mm (display part) 515 g	274 x 75 x 47 mm (display part) 510 g	274 x 75 x 47 mm (display part) 720 g
Packed Product Dimensions and weight	300 x 200 x 50 mm (display part) 640 g	300 x 200 x 50 mm mm (display part) 635 g	400 x 175 x 75 mm mm (display part) 950 g

THEW & McCANN A Legacy of Innovation

WHERE IT ALL STARTED

Our story began back in 1949, when two young innovators living in Sydney saw an opportunity to provide a better solution. Lance Thew and Harold McCann used their army pay to start their own business. They supplied much-needed products to people servicing generating plants in country towns. Back then, they supplied everything from buckets and mops to electrical wire and work boots. Their initial mission was simple. They listened carefully to what these people needed, and they sourced the best products available.

DRIVEN BY A DESIRE TO SOLVE PROBLEMS

The business grew and by 1969, we specialised in only electrical products. Thew and McCann soon found their passion for innovation was needed to cope with customer demand. As the electrical industry developed in Australia, so did the need for new products. If a quality, viable solution didn't exist, we were excited by the challenge of creating it.

PROACTIVE INVENTORS WHO NEVER STOP LEARNING

During the 1960s, the business branched out into manufacturing and importing. We collaborated closely with customers, never missing an opportunity to consult, listen and learn. By this stage, we were designing and developing a range of exclusive electrical products that solved specific industry needs. We were also developing key connections with international trading companies so we could source supplementary products our customers required.

NEW LEADERSHIP ADVANCES INNOVATION

When Lance Thew and Harold McCann retired in the 1970s and early 80s, this passion for innovation – for continual improvement – didn't diminish. Instead, it gained strength and momentum as the new leaders steered the company to meet the needs of emerging markets. Our unique Product Development Program helped us forge a market-leading position in the national electricity industry.

WE LOOK FORWARD TO CREATING THE NEXT PERFECT SOLUTION

Thew & McCann has always been synonymous with finding a better way. Now known as TMAC, we never stop searching for better, safer and more reliable solutions. Our substantial investment in research and new technology, and our focus on industry collaboration, delivers groundbreaking products that are responsive, proven and refined.

That's the TMAC Factor.