

# Trane Wiring Diagram For Low Terminal Board

Trane Wiring Diagram for Low Terminal Board: A Detailed Guide for HVAC Enthusiasts **trane wiring diagram for low terminal board** is a topic that often comes up for HVAC technicians, electricians, and even DIY homeowners who want to understand how to correctly wire or troubleshoot their Trane heating and cooling systems. Navigating the wiring of a low terminal board can seem intimidating at first, but with the right guidance and an understanding of the components involved, you can handle the setup confidently and safely. Whether you're installing a new thermostat, replacing a control board, or simply trying to decode the wiring connections for maintenance, understanding the Trane wiring diagram for the low terminal board is crucial. This article breaks down the essentials of this wiring setup, demystifying the connections and providing practical tips to make your HVAC work smoother.

# **Understanding the Low Terminal Board in Trane Systems**

Before diving into wiring diagrams, it's important to understand what the low terminal board is and its role in a Trane HVAC system. The low terminal board, sometimes referred to as the control terminal strip or low voltage terminal board, is the central hub where low voltage wires from the thermostat and other control components connect to the furnace or air handler. This board manages signals that control the heating, cooling, blower motor, and safety features. Unlike the high voltage components that power the main mechanical parts, the low terminal board handles the communication and control side of the system.

## **Why Focus on the Low Terminal Board Wiring?**

The low terminal board wiring is critical because it directly impacts how signals are sent and received between the thermostat and the HVAC unit. Any incorrect wiring here can cause the system to malfunction—leading to no heat, no cooling, blower issues, or even safety shutdowns. Additionally, many troubleshooting scenarios boil down to checking these low voltage connections because they are more accessible and less hazardous. Having a reliable Trane wiring diagram for the low terminal board ensures

you know exactly where each wire should go and how it should behave.

## Key Components and Terminals on the Trane Low Voltage Terminal Board

When looking at a typical Trane low terminal board, you'll see a series of labeled terminals. Understanding what each terminal represents is essential before connecting wires.

1. **R (Red):** Power from the transformer, usually 24V AC.
2. **C (Common):** The common side of the transformer, completing the circuit.
3. **W (White):** Heat call signal from the thermostat.
4. **Y (Yellow):** Cooling call signal.
5. **G (Green):** Fan control signal (blower motor).
6. **O/B:** Heat pump reversing valve control (if applicable).
7. **Aux/Emergency Heat:** For auxiliary or emergency heat in heat pump systems.

Different Trane models might have variations or additional terminals, but these are the core connections you'll encounter.

## Common Wire Colors Used with the Low Terminal Board

While wire colors can vary depending on installer preference, these colors are commonly used for HVAC low voltage wiring:

1. **Red (R):** 24V power
2. **White (W):** Heat
3. **Yellow (Y):** Cooling
4. **Green (G):** Fan
5. **Blue or Black (C):** Common

Always verify wire functions before connecting, as wire colors are not guaranteed to be standard in all installations.

## Step-by-Step Guide to Reading the Trane Wiring Diagram for Low Terminal Board

When you have a Trane wiring diagram for the low terminal board in front of you, it's like a roadmap for your HVAC's control system. Here's how to approach it effectively:

## **1. Identify the Transformer Connections**

Start by locating the 24V transformer wiring. These wires typically connect to the R and C terminals. The R terminal provides the “hot” 24 volts, and C is the common return path.

## **2. Trace Thermostat Input Wires**

Look for wires coming from the thermostat terminals R, W, Y, and G. These signals tell the furnace or air handler what to do based on the thermostat’s settings.

## **3. Check Additional Control Signals**

If your system includes a heat pump, you might see O/B terminals for reversing valve control. For systems with emergency heat, look for AUX or E terminals.

## **4. Verify Safety and Sensor Inputs**

Some Trane models include terminals for flame sensors, limit switches, or pressure switches. These safety features are wired into the low terminal board to shut down the system if a problem is detected.

# Tips for Troubleshooting Using a Trane Wiring Diagram for Low Terminal Board

Having the wiring diagram is half the battle; the other half is using it effectively in the field. Here are some practical tips:

1. **Always turn off power:** Before touching any wires, disconnect power at the breaker to avoid shocks or damage.
2. **Use a multimeter:** Test voltage and continuity to confirm wiring matches the diagram.
3. **Label wires:** If you're disconnecting wires for any reason, label them to avoid confusion during reconnection.
4. **Look for corrosion or damage:** Old terminals may have rust or loose connections that cause intermittent faults.
5. **Compare diagram to actual wiring:** Sometimes previous installers may have deviated from the original wiring scheme—verify each connection carefully.

## Common Issues Related to Low Terminal Board Wiring

Incorrect wiring or faulty connections on the low terminal board can cause a range of issues, such as:

1. Thermostat calls not triggering heating or cooling.
2. Blower fan running continuously or not running at all.
3. System safety lockouts due to sensor miswiring.
4. Short cycling or erratic system operation.

Using the wiring diagram to systematically check each terminal and wire can quickly isolate the problem.

## **Where to Find Official Trane Wiring Diagrams and Resources**

If you're working on a specific Trane model, the best source for an accurate wiring diagram is usually the official Trane installation or service manual. These documents often include detailed images of the low terminal board wiring and explanations of each terminal function. You can find these manuals:

1. On the official Trane website under service or support sections.
2. Through authorized Trane dealers or HVAC suppliers.
3. On specialized HVAC forums or websites that share manuals and diagrams.

Make sure to reference the correct model number of your unit for the most relevant diagram.

## **Using Digital Tools for Wiring Diagrams**

Modern HVAC professionals often use apps and software to access wiring diagrams on the go. Some platforms also offer interactive diagrams that allow you to click on terminals and see wiring details or troubleshooting tips. This can speed up repairs and reduce errors.

## **Final Thoughts on Working with Trane Wiring Diagram for Low Terminal Board**

Understanding the Trane wiring diagram for low terminal board is an indispensable skill for anyone dealing with HVAC systems. It empowers you to install, maintain, and troubleshoot your heating and cooling system with confidence. While wiring can seem complex, focusing on the logic behind the terminal connections and the signals they carry makes the task manageable. By combining a clear grasp of the low voltage terminal board layout with practical tools like multimeters and official diagrams, you can ensure your Trane system runs efficiently and reliably. Whether you're a seasoned technician or a dedicated DIYer, mastering this aspect of HVAC wiring opens the door to smoother, safer, and more effective system management.

Trane Wiring Diagram for Low Terminal Board: A Technical Overview and Practical Insights **trane wiring diagram for low terminal board** is an essential reference for HVAC technicians, electricians, and system installers working with Trane air conditioning and heating units. Understanding the wiring layout for the low voltage terminal board can significantly impact the efficiency, safety, and troubleshooting accuracy when dealing with Trane systems. This article delves into the intricate details of the wiring diagram, offering a nuanced analysis and practical guidance on interpreting and utilizing this crucial schematic.

## Understanding the Low Terminal Board in Trane Systems

The low terminal board in Trane HVAC units serves as the centralized point for low voltage control wiring, typically operating between 24V and 30V. This board facilitates connections between the thermostat, control modules, sensors, and other components within the system. Unlike high voltage boards that deal with power delivery, the low terminal board manages the signaling that commands the HVAC unit to activate heating, cooling, fans, or auxiliary functions. Accessing the correct Trane wiring diagram for low terminal board is vital for those aiming to install, repair, or upgrade these systems. Given that Trane manufactures a variety of models with differing control

schemes, the wiring diagrams help clarify the function and placement of each terminal, such as R (power), C (common), Y (cooling), W (heating), G (fan), and others specific to advanced features.

## Key Components and Terminal Labels

Decoding the wiring diagram requires familiarity with common terminal designations used by Trane across their product lines:

1. **R:** Power from the transformer (24V hot).
2. **C:** Common side of transformer (neutral).
3. **Y:** Cooling call (usually activates compressor).
4. **W:** Heating call signal.
5. **G:** Fan control signal.
6. **O/B:** Reversing valve for heat pump systems.
7. **Aux/E:** Auxiliary or emergency heat activation.
8. **W2:** Second-stage heating (if applicable).

These terminals correspond to low voltage wiring that signals HVAC operations without carrying significant current, thereby reducing hazard risks and enabling easier troubleshooting.

## Analyzing the Trane Wiring Diagram for Low Terminal Board

A detailed examination of the Trane wiring diagram for

low terminal board reveals that the layout prioritizes clarity and modular design. The diagrams are generally broken down into sections aligned with specific HVAC functions, such as cooling, heating, fan control, and safety interlocks. This compartmentalization aids technicians in isolating issues and understanding system responses to thermostat inputs. In many modern Trane systems, the wiring diagram also integrates communication lines for smart thermostats and control boards that support diagnostics and remote monitoring. This advancement complicates the low terminal board slightly by adding terminals for data signals alongside traditional control wires.

## **Comparative Insights: Trane vs. Other Manufacturers**

When juxtaposed with wiring diagrams from other leading HVAC manufacturers like Carrier, Lennox, or Rheem, Trane's low terminal board diagrams tend to be more straightforward for entry-level technicians. While all manufacturers use similar terminal designations due to industry standards, Trane often includes clearer labeling and additional notes within the diagram to reduce ambiguity. However, some technicians note that Trane's diagrams may lack explicit color coding that other brands employ, potentially leading to confusion when matching physical wire colors to schematic symbols. This factor

should be considered during installation or repair to prevent wiring errors.

## **Practical Applications and Troubleshooting Tips**

Utilizing the Trane wiring diagram for low terminal board effectively requires a combination of technical knowledge and hands-on experience. Here are some practical tips for professionals engaging with these diagrams:

### **System Installation**

1. **Verify Transformer Voltage:** Confirm that the transformer supplying the low terminal board is providing the correct voltage (usually 24V AC) before connecting wires.
2. **Follow Terminal Designations Precisely:** Match thermostat wires to the correct terminals to ensure proper system response. Miswiring can cause the system to malfunction or short circuits.
3. **Use the Diagram as a Reference, Not an Absolute:** Some field variations occur based on model and additional accessories; always cross-check with the unit's installation manual.

# Maintenance and Troubleshooting

1. **Check Continuity and Voltage:** Use a multimeter to test voltage at each terminal, ensuring the control board receives proper signals.
2. **Identify Faulty Connections:** Loose or corroded terminals on the low terminal board can cause intermittent operation; the wiring diagram helps pinpoint which wires to inspect.
3. **Understand Control Logic:** The diagram reveals how signals flow from thermostat commands to system response, aiding in diagnosing why a certain function (cooling, heating, fan) might fail.

## Advanced Considerations in Low Terminal Board Wiring

With technological advances in HVAC controls, the low terminal board wiring in Trane systems has evolved. Many systems now incorporate smart connectivity, variable speed fans, and modulating heat pumps, all requiring more complex wiring and control signals. For example, communicating thermostats may use additional wires for data exchange, which the low terminal board accommodates by including extra terminals or plug-in connectors. The wiring diagram for these models reflects these complexities, showing not only traditional control wires but also communication lines, sensor inputs, and

auxiliary device outputs. This evolution underscores the necessity for technicians to obtain the latest version of the Trane wiring diagram for low terminal board specific to the model they are servicing. Relying on outdated diagrams can lead to incorrect wiring, system malfunctions, or voided warranties.

## **Safety and Compliance**

Following the wiring diagram accurately ensures compliance with electrical codes and manufacturer safety guidelines. Low voltage wiring, while safer than high voltage, still demands adherence to standards to prevent shorts, fire hazards, or damage to electronic components. Technicians should always de-energize circuits before working on the low terminal board and verify wiring connections post-installation or repair. Documentation, including the wiring diagram, should be kept on-site for future reference. Navigating the Trane wiring diagram for low terminal board is a critical skill in HVAC system management. From installation to troubleshooting, these diagrams provide the roadmap for understanding how low voltage signals dictate system behavior. As Trane continues to innovate in HVAC technology, staying informed about wiring configurations and control interfaces remains essential for professionals committed to delivering reliable and efficient climate solutions.

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Students also experience clear benefits. Academic success often depends on access to reliable study materials. Digital PDFs support offline learning, repeated review, and efficient note-taking. The ability to organize files digitally reduces stress and improves focus, allowing students to manage multiple subjects more effectively.

Digital access supports diverse learning styles. Some readers prefer structured, linear reading, while others focus on specific sections or revisit content selectively. Digital formats accommodate both approaches. Readers can skim, search, annotate, or study deeply depending on their goals and preferences.

Accessibility features further expand the reach of digital books. Adjustable font sizes, screen reader compatibility, night modes, and text-to-speech functions help ensure that **Trane Wiring Diagram For Low Terminal Board** remains usable for readers with different needs. Inclusive design makes knowledge more equitable and widely

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Environmental considerations add another perspective. Producing and transporting printed books requires significant resources. While digital technology has its own environmental footprint, distributing books electronically often reduces paper usage and physical transportation. Downloading **Trane Wiring Diagram For Low Terminal Board** contributes to a more efficient and sustainable model of information sharing.

Organization is another understated advantage of digital libraries. Files can be categorized, labeled, backed up, and retrieved instantly. Readers can build long-term collections without physical clutter. When information is organized effectively, it becomes easier to revisit ideas and build upon previous learning.

Global accessibility is one of the most powerful aspects of digital books. Readers from different countries and backgrounds can access the same material without delay. This shared access fosters dialogue, collaboration, and cultural exchange. Downloading **Trane Wiring Diagram For Low Terminal Board** connects individuals to a broader global learning community.

Digital literacy naturally develops through regular interaction with digital resources. Learning how to

evaluate sources, manage information, and use reading tools responsibly is now a vital skill. Engaging with **Trane Wiring Diagram For Low Terminal Board** in digital form helps users build these competencies through practical experience.

Perhaps the most meaningful change lies in how digital access influences attitudes toward learning. When information is easy to obtain, curiosity feels encouraged rather than inconvenient. Readers are more willing to explore new topics, revisit familiar ideas, and continue learning over time.

This mindset supports lifelong learning. Education becomes an ongoing process shaped by evolving interests and challenges. Having **Trane Wiring Diagram For Low Terminal Board** available digitally ensures that learning remains flexible and adaptable throughout different stages of life.

In conclusion, the ability to download **Trane Wiring Diagram For Low Terminal Board** reflects a broader transformation in how knowledge is shared and experienced. Digital access offers convenience, affordability, functionality, and ethical distribution, making learning more inclusive and practical. When used responsibly, **Trane Wiring Diagram For Low Terminal Board** becomes more than a digital book—it becomes a

trusted resource for reflection, growth, and continuous intellectual development in an ever-changing world.

# Questions & Answers About trane wiring diagram for low terminal board

| No | Question                                                            | Answer                                                                                                                                                                                                                                                  |
|----|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | What is a Trane low terminal board wiring diagram?                  | A Trane low terminal board wiring diagram is a schematic that illustrates the electrical connections and wiring layout for the low voltage control terminals of a Trane HVAC system, helping technicians properly connect thermostat and control wires. |
| 2  | Where can I find a Trane wiring diagram for the low terminal board? | Trane wiring diagrams for the low terminal board can typically be found in the unit's installation manual, service manual, or on the official Trane website under product support and documentation sections.                                           |

|   |                                                                                     |                                                                                                                                                                                                                                                                          |
|---|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | What do the terminal labels on a Trane low terminal board represent?                | Terminal labels on a Trane low terminal board usually represent different control signals such as R (24V power), C (common), Y (cooling call), W (heating call), G (fan), and sometimes O/B (heat pump reversing valve), indicating where each wire should be connected. |
| 4 | How do I wire a thermostat to a Trane low terminal board?                           | To wire a thermostat to a Trane low terminal board, connect the thermostat wires to their corresponding terminals: R to power, C to common, Y to cooling, W to heating, and G to fan, ensuring all connections match the wiring diagram for your specific model.         |
| 5 | Can I use a universal thermostat with a Trane low terminal board?                   | Yes, most universal thermostats can be used with a Trane low terminal board as long as the wiring terminals are matched correctly and the thermostat supports the HVAC system type (e.g., heat pump or conventional). Always verify compatibility before installation.   |
| 6 | What precautions should I take when working with a Trane low terminal board wiring? | When working with a Trane low terminal board wiring, always turn off power to the HVAC unit, use a wiring diagram for reference, double-check all connections, avoid damaging terminals, and ensure wires are securely connected to prevent system malfunctions.         |

|   |                                                                                 |                                                                                                                                                                                                                                                                                    |
|---|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | Why is my Trane HVAC system not responding after wiring the low terminal board? | If the Trane HVAC system is unresponsive after wiring the low terminal board, it could be due to incorrect wiring, loose connections, blown fuses, or a faulty thermostat. Recheck the wiring against the diagram, ensure all terminals are secure, and verify system power is on. |
|---|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

trane low terminal board wiring, trane thermostat wiring diagram, trane control board wiring, trane hvac wiring schematic, trane low voltage wiring, trane thermostat terminal connections, trane air handler wiring, trane heat pump wiring diagram, trane wiring terminal labels, trane electrical wiring guide

# Trane Wiring Diagram

## For Low Terminal

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The adaptability of Trane Wiring Diagram For Low Terminal Board eBooks makes them suitable for beginners, intermediate learners, and advanced professionals alike.

Readers benefit from Trane Wiring Diagram For Low Terminal Board eBooks by gaining instant access to organized material.

The structured chapters of Trane Wiring Diagram For Low Terminal Board eBooks guide readers through progressive learning stages.

Trane Wiring Diagram For Low Terminal Board eBooks help learners organize complex ideas.

Trane Wiring Diagram For Low Terminal Board eBooks enable learning across multiple contexts, including work, travel, and home environments.

## **Compatibility Tips**

Compatibility is a crucial factor when accessing and using Trane Wiring Diagram For Low Terminal Board in digital form. Ensuring that your device and software support the file format helps prevent reading issues, formatting errors,

or loss of functionality. Fortunately, most modern devices are designed to handle common digital document formats with ease.

PDF is the most universally supported format for Trane Wiring Diagram For Low Terminal Board. Almost all computers, tablets, and smartphones can open PDF files using built-in viewers or free applications. This universal compatibility makes PDF an ideal choice for users who access content across multiple devices or operating systems. PDFs also preserve layout and formatting, ensuring a consistent reading experience regardless of screen size.

ePub formats offer greater flexibility in text layout, allowing font size, spacing, and margins to adapt to different screens. However, ePub files may require specific readers or applications, especially on desktop computers. Many mobile devices and eReaders support ePub natively, while others may need additional software. Before downloading Trane Wiring Diagram For Low Terminal Board in ePub format, it is advisable to confirm reader compatibility to avoid conversion issues.

Audiobook formats provide an alternative way to consume Trane Wiring Diagram For Low Terminal Board, particularly for users who prefer listening over reading. Audiobooks can usually be played on standard media applications

available on smartphones, tablets, and computers. Ensuring that the audio format is supported by your device guarantees smooth playback and uninterrupted listening sessions.

Keeping reading applications and operating systems up to date improves compatibility. Updates often include bug fixes, performance improvements, and support for newer file standards. Regular maintenance ensures that Trane Wiring Diagram For Low Terminal Board files open correctly and that advanced features such as annotations or interactive elements function as intended.

### **Optimizing compatibility across devices**

For users who switch between multiple devices, synchronizing reading apps and cloud accounts enhances compatibility. Progress, bookmarks, and annotations can be shared seamlessly, creating a consistent experience. Choosing widely supported formats and reliable reading software reduces technical friction and improves long-term usability.

### **Security Tips**

Security is an essential consideration when downloading and managing Trane Wiring Diagram For Low Terminal Board files. Digital documents obtained from unreliable sources may pose risks such as malware, corrupted files, or unauthorized content. Prioritizing security protects both

your devices and personal data.

Avoiding pirated files is one of the most effective security measures. Unauthorized copies often lack quality control and may contain hidden threats. Legal and reputable sources provide verified files that are safe to download and use. Respecting copyright also supports creators and publishers, contributing to a sustainable content ecosystem.

Before downloading Trane Wiring Diagram For Low Terminal Board, users should verify the credibility of the source. Official publishers, academic libraries, and well-known platforms typically provide secure downloads. Checking website reputation, reading user reviews, and confirming licensing information help reduce risks.

Using antivirus or security software adds an additional layer of protection. Scanning downloaded files ensures that potential threats are detected early. Many modern security tools operate in real time, monitoring downloads and alerting users to suspicious activity. Keeping antivirus software updated enhances effectiveness against emerging threats.

### **Safe handling of digital documents**

In addition to secure downloading, safe handling practices further reduce risk. Avoid enabling macros or scripts in

PDF files unless necessary and trusted. Be cautious with files that request excessive permissions or prompt unexpected actions. These precautions help maintain device integrity and user privacy.

## **File Management**

Effective file management ensures that your collection of Trane Wiring Diagram For Low Terminal Board remains organized, accessible, and easy to maintain. As digital libraries grow, poor organization can lead to confusion, duplicate files, and wasted time searching for documents.

Clear and consistent file naming is a fundamental aspect of file management. Including key details such as title, author, edition, or date in file names helps identify documents quickly. Consistency across all Trane Wiring Diagram For Low Terminal Board files prevents ambiguity and simplifies retrieval.

Using folders organized by topic, volume, subject, or date further improves clarity. For example, academic users may categorize files by course or discipline, while personal users may organize by interest or purpose. Logical folder structures make navigation intuitive and scalable as collections expand.

Tagging and labeling provide additional organizational flexibility. Many operating systems and cloud platforms

support tags that allow files to be grouped across multiple categories. A single Trane Wiring Diagram For Low Terminal Board document can be tagged as reference, study material, or important, enabling faster searches without duplicating files.

Version control is particularly important when managing multiple editions or updates. Maintaining clear version identifiers prevents accidental use of outdated content. Archiving older versions separately ensures historical reference while keeping current materials easily accessible.

### **Maintaining an efficient digital library**

Regularly reviewing and cleaning your library helps maintain efficiency. Removing obsolete files, merging duplicates, and updating folder structures keep your Trane Wiring Diagram For Low Terminal Board collection streamlined. Periodic maintenance ensures that file management systems remain effective over time.

### **Archiving**

Archiving Trane Wiring Diagram For Low Terminal Board files ensures long-term access and protects valuable information from loss. Digital documents can be vulnerable to accidental deletion, hardware failure, or software issues. Implementing reliable archiving strategies safeguards your collection for future use.

Cloud storage is a popular archiving solution due to its accessibility and automatic backup features. Storing Trane Wiring Diagram For Low Terminal Board files in reputable cloud services allows access from multiple devices while reducing the risk of data loss. Many platforms offer version history, enabling recovery of previous file states if needed.

External drives provide an additional layer of security for archiving. Storing backup copies on external hard drives or USB devices protects against cloud service disruptions or account issues. Keeping these drives in secure locations further enhances data protection.

A comprehensive archiving strategy often combines cloud and physical backups. Redundant storage ensures that Trane Wiring Diagram For Low Terminal Board remains accessible even if one storage method fails. Periodic verification of backup integrity confirms that archived files remain readable and complete.

### **Best practices for long-term archiving**

- Use widely supported file formats such as PDF for longevity.
- Label archived files clearly with dates and version information.
- Maintain multiple backup locations.
- Review archives periodically to ensure accessibility.
- Update storage media as technology evolves.

## **Future-proofing your Trane Wiring Diagram For Low Terminal Board collection**

Technology evolves over time, and file formats or storage methods may change. Choosing standard formats, maintaining backups, and staying informed about digital preservation practices help future-proof your Trane Wiring Diagram For Low Terminal Board collection. These steps ensure that documents remain usable and accessible for years to come.

## **Final thoughts on compatibility, security, and archiving**

Managing Trane Wiring Diagram For Low Terminal Board effectively requires attention to compatibility, security, file organization, and archiving. By ensuring device support, downloading from trusted sources, organizing files systematically, and maintaining reliable backups, users can protect their digital libraries and maximize long-term value. These best practices create a safe, efficient, and sustainable environment for accessing and preserving Trane Wiring Diagram For Low Terminal Board in the digital age.