

TECHNOLOGY MADE TOUGH



ATKINSON INDUSTRIAL INTERCOMS



ATKINSON DYNAMICS
COMMUNICATIONS
FOR INDUSTRY

FIRST IN INTERCOMS THAT LAST

In the world's most demanding environments...Offshore drilling platforms are perhaps the cruelest of all taskmasters for intercom systems. All the risks for failure are present - high ambient noise levels, salt spray, dirt or other airborne contaminants, fierce weather conditions, rough usage, and the need to connect a large number of stations over an extensive distance. Because of their outstanding performance record, Atkinson Dynamics intercoms have become the dependability benchmark for two-way, single line communication systems within the world's oil industry.

When communication is absolutely critical... Over the years, Atkinson Dynamics' reputation in the field of industrial communications has grown primarily from the ability of its intercoms to perform effectively despite high ambient noise levels... which would render conventional intercom communication equipment useless.

TECHNOLOGY...MADE TOUGH.

Today's industrial environments demand a communication system as versatile as it is tough. Atkinson Dynamics industrial intercoms promise all that and more - more options, more adaptability, greater endurance.

INDUSTRIAL COMMUNICATIONS

Whether your communications challenge is extreme weather, high noise or harsh usage requirements, there is an Atkinson Dynamics communication solution that can help your facility stay connected.

Atkinson Dynamics Intercom Systems are simple, two-way single channel intercoms. Each basic intercom is fully equipped to receive,

amplify and send signals to all other units within a system. A volume control on the face of each unit allows the user to adjust the output level to overcome noisy environments. A convenient talk/listen switch can be pushed to activate the built-in microphone. This switch defaults to the listen position when it is released.

Expanding an Atkinson Dynamics system is easy, too. Because they're completely modular, a virtually limitless number of additional basic units can be added to the system as your business grows.

RUGGED GOOD LOOKS...

The robust exterior of the Atkinson Dynamics intercom provides protection against the elements, indoors and out. The vandal-proof,



TOUGH TALK

Q: What if my staff is too far away from the intercom to hear when there is an announcement?

A: You may want to consider an intercom equipped with a **CALL BUTTON**. When the call button is activated, a loud tone goes out over the system, capturing the attention of workers who might be out-of-range of the speaker's output in its normal voice message mode.

In the event that ambient noise levels are still too great for the intercom to attract attention (this usually occurs when ambient noise levels are over 85dB), there is an Atkinson Dynamics model designed to activate an **AUXILIARY STROBE LIGHT** - when used in conjunction with the **CALL BUTTON**, the **STROBE** will help to get your worker's attention.

Q: We operate a drive-up weigh station. I want the intercom in the office to monitor the activity at the remote station, so the operator can tell when a customer has pulled up outside. Do you have an intercom that allows this?

A: A pair of Atkinson Dynamics **MASTER/SLAVE INTERCOMS** is just what you need. The master unit would be located in your operator's work area, and the slave unit would be located at your drive-up bay.

The master unit monitors and controls the remote units. When the operator hears a customer at the slave unit, he can speak to him by pressing the Talk/Listen switch. Once he releases the switch, the intercom at the slave station switches back to microphone mode, so the customer can speak to the operator.

corrosion-resistant cast aluminum housing is carefully sealed to keep the interior components free of moisture and dust.

...BUT LOOKS AREN'T EVERYTHING!

Every Atkinson Dynamics Intercom features solid-state circuitry that withstands even the roughest conditions, including the vibrations and rough usage encountered in many heavy industrial environments. We've even developed special models to overcome such problems as loud working conditions, or communicating with workers who must move in and out of range of the intercom.

HOW IT WORKS...

Setting up a basic Atkinson Dynamics Intercom System is simple. Two or more units are placed

in their respective stations, power is supplied locally, and an audio line is run between them. The volume control knob is adjusted on each unit to insure that speaker output overcomes ambient noise levels at each location. Your Atkinson Dynamics Intercom System is now ready for use... it's that simple.

With the Talk/Listen switch in its default position, each intercom functions as a speaker, broadcasting messages from any other station in the system. When the Talk/Listen switch is depressed, the speaker is automatically converted into a microphone, allowing the user to broadcast a message to all other stations in the system.



In all kinds of weather... Temperature extremes - either very high or very low - have a serious negative impact on the quality and dependability of ordinary intercom systems.

This is not the case with Atkinson Dynamics equipment. Year after year, Atkinson Dynamics intercom systems continue to perform in the most adverse conditions - from arctic cold to the blistering heat of a smelting operation - even when directly exposed to the elements for extended periods of time.

Q: We'd like to put an intercom unit in our guard shack - but there's no local power supply out there. Is there an Atkinson Dynamics Intercom that you'd recommend?

A: Atkinson Dynamics has designed a pair of intercoms specifically for this type of application that provides special **REMOTE POWER** capabilities. A 120VAC unit can be equipped to supply power to a 12VDC unit at the remote location via the same cable that carries the audio signal.

Q: Our operators typically have their hands full. Is there a way to activate the intercom's microphone without pressing the Talk/Listen switch?

A: We have more than one solution for this problem. Some Atkinson Dynamics models are designed to be activated by a **FOOT PEDAL**. The intercom is ordinarily in the speaker mode, ready to broadcast any message that comes down the audio line. When the operator needs to broadcast a message, he steps on the foot pedal and speaks into the intercom, which will remain in microphone mode until he lets up on the pedal. The unit defaults to speaker mode once the pedal is released.

Q: Some of our intercom stations are located outdoors - we're way up North, and that means that temperatures drop very low at times. Do you have anything that can function in extreme temperatures?

A: Atkinson Dynamics has developed an **EXTREME CONDITION INTERCOM** that holds up even under the most adverse temperatures - even as low as -50°F and as high as 150°F.

Q: There's quite a lot of background noise in our shop. Won't the background noise be broadcast over the intercom along with the message?

A: For particularly noisy environments, we recommend an intercom that accepts a **NOISE-CANCELLING MICROPHONE** or **HEADSET** (sold separately). This allows the user to speak directly into the noise-cancelling microphone and override the intercom's built-in microphone. The Atkinson Dynamics microphone is designed to cancel out 90% of the background noise, ensuring that a clear, crisp voice message goes out over the audio line.



HOW TO ORDER THE RIGHT INTERCOM FOR YOUR APPLICATION

Ordering an intercom system is easier than you think. Start by selecting a basic model for each area within your facility. Atkinson Dynamics offers 12 basic models:

Model Number	Supply Voltage	Audio Output	Power Consumption (max)	Operating Temperature	Shipping Weight
WALL MOUNT MODEL WITH TALK/LISTEN AND VOLUME CONTROL					
UL/cUL Listed for Indoor/Outdoor, NEMA 4X, and Marine Applications					
AD-26	12VDC	8.0 Watts	20.0 Watts	-31°F to 150°F	11 lbs.
AD-56	24VDC	11.7 Watts	39.6 Watts	-31°F to 150°F	11 lbs.
AD-27	120VAC, 50/60 Hz	11.3 Watts	28.8 Watts	-31°F to 150°F	11 lbs.
AD-57	240VAC, 50/60 Hz	11.3 Watts	30.5 Watts	-31°F to 150°F	11 lbs.
PANEL MOUNT MODEL WITH TALK/LISTEN AND VOLUME CONTROL					
AD-26P	12VDC	8.0 Watts	20.0 Watts	-31°F to 150°F	2 lbs.
AD-56P	24VDC	11.7 Watts	39.6 Watts	-31°F to 150°F	2 lbs.
AD-27P	120VAC, 50/60 Hz	11.3 Watts	28.8 Watts	-31°F to 150°F	2 lbs.
AD-57P	240VAC, 50/60 Hz	11.3 Watts	30.5 Watts	-31°F to 150°F	2 lbs.
DESKTOP MODEL WITH TALK/LISTEN AND VOLUME CONTROL					
AD-26T	12VDC	8.0 Watts	20.0 Watts	-31°F to 150°F	6 lbs.
AD-56T	24VDC	11.7 Watts	39.6 Watts	-31°F to 150°F	6 lbs.
AD-27T	120VAC, 50/60 Hz	11.3 Watts	28.8 Watts	-31°F to 150°F	6 lbs.
AD-57T	240VAC, 50/60 Hz	11.3 Watts	30.5 Watts	-31°F to 150°F	6 lbs.

Once you've selected the basic models, choose the special features you need for each unit to meet the unique demands of each location:

- Remote power
- Auxiliary strobe light
- Noise-cancelling microphone or headset
- Extreme condition intercom
- Call button
- Foot pedal
- Master/slave intercoms

System Design Assistance

Plant-wide communication systems can get complicated. If you'd like assistance designing your system, Atkinson Dynamics is ready to help. Call (888) 751-1500 and ask for our Application Engineering Department. We'll help you analyze your plant layout, determine which units might best suit your needs, and provide you with all the supplementary technical information you'll need to specify a system that's right for you.

What's more, if one of our standard models isn't quite what you need, Atkinson Dynamics can design an intercom that will meet your special requirements.

Architectural Requirements For Wall Mount Unit

Intercoms shall consist of solid state amplifiers, built-in speaker/microphones and controls in water-tight, dust-tight NEMA 4X cast aluminum cases. Amplifiers shall amplify both transmitted and received signals. AC models will operate at 120VAC or 240VAC, 50/60 Hz, and draw from 10VA at standby to 29VA at full output. Output impedance will be 8 ohms at 8 volts RMS. Input impedance will vary from 220 ohms at full volume to 10k ohms at off position. Unit shall operate from -31°F to 150°F.

Warranty

Atkinson Dynamics guarantees their intercoms to be free of defects at the time of delivery. If damage is found to be a factory defect, Atkinson Dynamics will warrant all labor charges for repair for one full year, and all replacement parts for two full years.

Intercom system components are also available for a wide range of other specialized needs including equipment for explosion-proof, hazardous location, multi-channel, and multiple zone applications. Application engineers expert at developing system design solutions for most any combination of needs, are only a phone call away. Call today...(888) 751-1500.

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ATKINSON DYNAMICS
COMMUNICATIONS
FOR INDUSTRY

MODULAR INDUSTRIAL INTERCOM SYSTEMS

Engineered for Versatile System Integration

Constructed for Reliable Rugged Duty

Wall, Panel and Desktop Models

Broad Selection of Auxiliary Features

POPULAR APPLICATIONS

- Offshore Oil Platforms • Newspaper Press Rooms
- Production Conveyor Lines • Shipboard • Construction Sites
- Fire Rescue Vehicles • Utility Trucks • Mining

GOT AN UNUSUAL COMMUNICATION CHALLENGE?

Atkinson Dynamics' engineering staff specializes in finding unique solutions to satisfy most any application demand.

JUST GIVE US A CALL!

(888) 751-1500





**Wall Mount Model
with Call Button,
Talk/Listen and
Volume Control**



**Panel Mount Model
with Talk/Listen
and Volume Control**



**Desktop Model
with Talk/Listen and
Volume Control**