



TITAN INDUSTRIES, INC.

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Innovative Technology Global Solutions

Dear Customers,

The Titan ProPAC-3 Additive Injector is specifically designed to inject liquid chemical additives at petroleum product terminals. The ProPAC-3 includes patented hardware and software that assures the additive/product ratio is always maintained within customer specifications. The ProPAC-3, when properly integrated into a users control system, can inject within 0.5% accuracy. Injector features, when used properly, provide the highest level of EPA regulatory compliance.



The ProPAC-3 microprocessor is a state-of-the-art high-speed microprocessor capable of operating and accounting for additive and product on three separate channels. The three channels may be used to inject three different additive injection rates, as with a generic additive system shared by multiple users. Injection rates may be selected via a hardware permissive input or via software permissive. Each channel maintains accountability for its own additive/product ratio.

The microprocessor provides all the operational, alarm, and communication functions for the injector. The microprocessor is field replaceable. The ProPAC-3 incorporates a large graphical display enabling the injector to present a large degree of information on one display screen. The Titan ProPAC-3 communicates injector data via RS-485 serial communications. The communications protocol is mature and well established. It has also built in Accuload Communication protocol.

The Propac3 series injectors are build to last and it's quality is shown in the following major oil companies that are still in operations for more than **15 years**: Exxon Mobil in Singapore, CPC in Taiwan, PTT in Thailand, Pemex in Mexico, Terpel in Columbia, Chevron in USA, BP USA. Other overseas customers includes: TOTAL in Turkey/Philippines/Cambodia, Sinopec China, Shell Indonesia, Petron Philippines, Petrobras, Repsol YPF, Refinor, Atlantic Refinery Canada etc.

USA companies includes: ExxonMobil, Chevron Products Company, Shell Oil Company, NuStar, BP, ExxonMobil, Buckeye Pipeline, Alon USA, Tosco, Amco, Baker-Hughes, Texaco, Conoco-Phillips, Texas Eastern Products Pipeline Company (Teppco), Nalco Chemical, Octel America, Betz Chemical, Calgon, Marathon Oil, Delek Refining, Holly Energy Partners, Sunoco, Center Oil, Western Refining, Valero, Kindermorgan, Buckeye Pipeline etc

Titan also provides complimentary products to our additive injectors such as additive pumps, explosion proof motors, pressure relief valves, tanks and skids to offer our value customers a one stop for additive injections system products. We stock pumps, motor and spares to support our customers. Please take advantage of our web site at <http://www.titan-solutions.com> or email to yewsing@titan-solutions.com for further information

Sincerely Yours,

Yew-Sing Tan
Project and Sales Engineer