

UDC5000 *Ultra-Pro* Universal Digital Controller

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Specification

Overview

The UDC5000 Ultra-Pro is a micro-processor-based, stand-alone digital controller that combines the highest accuracy available with unparalleled functionality and performance.

This combination addresses the needs of critical processes and complex applications typical of the high performance arena, where product quality, high throughput, and minimal scrap of expensive materials are prime considerations. Bright dual displays and English prompts make the operator interface easy to read, understand, and operate. Programmed sequences of displays assure quick and accurate entry of all configurable parameters. Simple keystrokes let you select input and range configuration and change operating parameters to meet your specific process control needs.



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Figure 1 - UDC 5000 Ultra-Pro Controller

Features

High Accuracy - $\pm 0.05\%$ of fullscale; typically $\pm 1.0^\circ\text{F}$. Input resolution 14 bits minimum.

High Noise Immunity - The UDC 5000 Ultra-Pro is designed to provide reliable, error-free performance in industrial environments that often affect highly sensitive digital equipment.

Dual Displays - Bright, vacuum fluorescent, alphanumeric digital displays. A large six digit upper display is dedicated to the Process Variable and an eight digit lower display shows key selected operating parameters.

Bargraph Display - This may be configured to display 0 to 100% Output or Deviation of $\pm 10\%$ of input span with on-control indication.

Easy Configuration - English language prompts, in programmed sequence, provide guidance during configuration. A tactile keyboard provides positive operator feedback.

Universal Inputs - All inputs isolated with no range modules or DIP switches. Up to three inputs are available. Input one and two accept up to 10 thermocouple types, RTD's, mA, mV, or Voltage inputs. Input 3 provides a high level input for remote setpoint or math functions.

Universal Output Model - provides hardware and software required to configure the output type required for your application. This is a simple, cost effective solution to spares stocking.

Thermocouple Failsafe - Keyboard configurable, upscale or downscale burnout and failsafe output level.

Three Local Setpoints - Can be configured to provide three local set points which can be selected by the keyboard or the optional remote Digital Input switch.

Two Sets of Tuning Constants - Two sets of PID parameters can be configured and automatically selected depending on the PV or Setpoint value.

Diagnostic/Failsafe Outputs - Continuous diagnostic routines detect failure modes, trigger a failsafe output value, and identifies the failure to minimize troubleshooting time.

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Chilton's I & C S ,1988 *Control Engineering* ,1987 Instrumentation and automatic control systems **Mechanical Engineering** ,1985 **InTech** ,1988-07 *Manual of Electrical Undertakings and Directory of Officials* ,1908
Metallurgia ,1990 **Advances in PID Control** Kok K. Tan, Qing-Guo Wang, Chang C. Hang, 2012-12-06 Recently a great deal of effort has been dedicated to capitalising on advances in mathematical control theory in conjunction with tried and tested classical control structures particularly with regard to the enhanced robustness and tighter control of modern PID controllers Much of the research in this field and that of the operational autonomy of PID controllers has already been translated into useful new functions for industrial controllers This book covers the important knowledge relating to the background application and design of and advances in PID controllers in a unified and comprehensive treatment including Evolution and components of PID controllers Classical and Modern PID controller design Automatic Tuning Multi loop Control Practical issues concerned with PID control The book is intended to be useful to a wide spectrum of readers interested in PID control ranging from practising technicians and engineers to graduate and undergraduate students
Power Plant Engineering ,1985 Ceramics David W. Richerson, 1988 *Power Engineering* ,1985

Adopting the Song of Phrase: An Mental Symphony within **Udc5000 Manual**

In a global taken by monitors and the ceaseless chatter of fast conversation, the melodic beauty and psychological symphony created by the written term often fade into the background, eclipsed by the persistent noise and interruptions that permeate our lives. But, nestled within the pages of **Udc5000 Manual** an enchanting literary value overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this charming masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional evaluation, we will discover the book is main harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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