



## NT™ SIGNAL CONVERTER BOX

*An efficient CMP tool retrofit solution for replacing peristaltic pumps with NT™ integrated flow controllers*



# efficient CMP tool retrofit solution

## Increase System Reliability

Chemical Mechanical Planarization (CMP) systems typically use an open-loop, peristaltic pump control system for delivering slurry to the point-of-use polishing pads. In many cases, the polishing system flow rate is not directly measured or properly controlled, causing performance, maintenance and accuracy issues.

Replacing peristaltic pumps with Entegris' leading edge NT™ integrated flow controller (IFC) provides a closed-loop flow control system that enables users to increase the CMP slurry delivery system's reliability and performance. Additionally, NT™ IFCs:

- Increase tool uptime by eliminating the need for frequent pump calibrations
- Minimize slurry waste
- Maintain a constant flow of slurry to the polishing pad at the desired flow rate
- Reduce downtime by eliminating need for tubing replacement
- Allow point-of-use dispense
- Provide greater ROI

## Reduce Tool Downtime

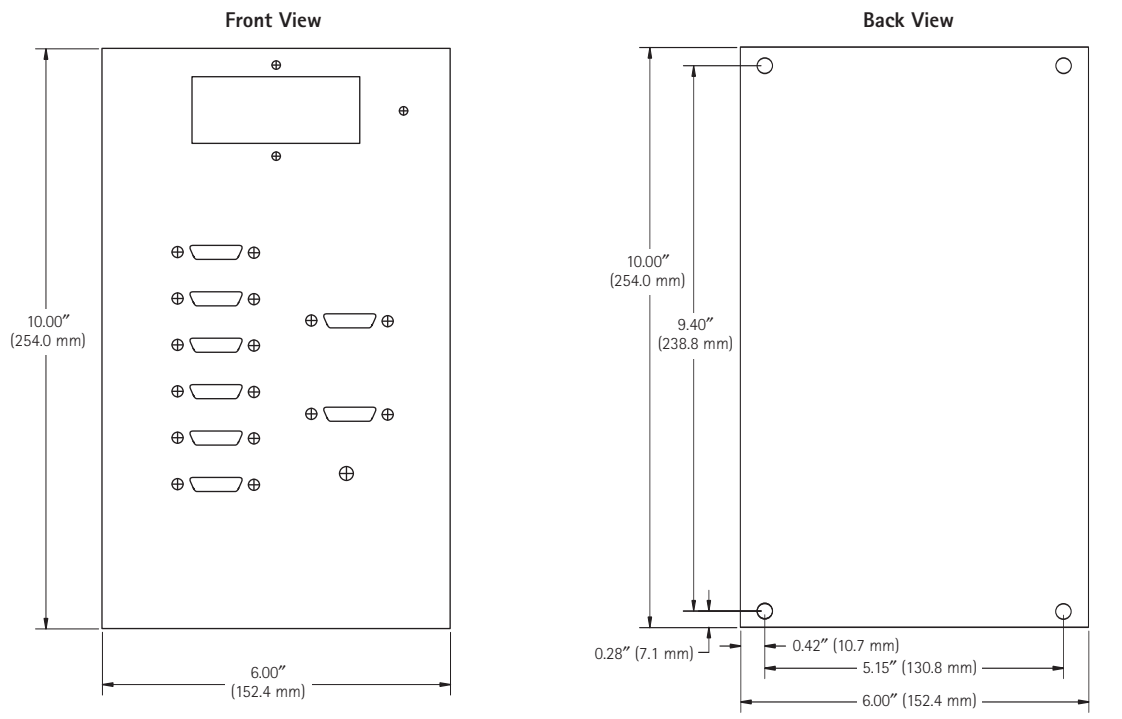
The NT™ signal converter box interfaces a CMP tool and NT™ flow controllers. It functions by receiving setpoint signals and transmitting flow measurement signals to the CMP tool. The NT™ signal converter box simplifies installation and cuts tool downtime in half by eliminating the need to prepare wire connections. In addition, the NT™ signal converter box:

- Conditions signals for tool analog I/O
- Connects up to six flow controllers at once
- Provides clean and stable power
- Simplifies retrofit process
- Saves space with compact design



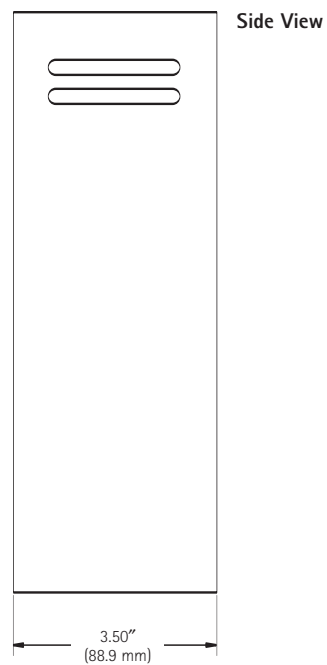
*The NT™ signal converter box interfaces an NT™ integrated flow controller and a CMP tool, resulting in a closed-loop flow control system that increases overall tool performance.*

# Dimensional Information



# Specifications

Description	
Power supply:	
Input:	100-240 VAC 50-60 Hz
Output:	24V, 240W and 7.5A
IFC I/O:	DSUB15-F
Flow I/O:	DSUB15-M
Setpoint I/O:	DSUB15-M



## Ordering Information

### Part Number

SC100-XXXX-X-XXX

#### Setpoint Signal and Flow Measurement Cable Options

R00 = Two DSUB15-F connectors only, no cable

R06 = One 6' PVC setpoint cable with DSUB15-F connector to spade lugs and one 6' PVC flow measurement cable with DSUB15-F connector to flush cut end

R12 = One 12' PVC setpoint cable with DSUB15-F connector to spade lugs and one 12' PVC flow measurement cable with DSUB15-F connector to flush cut end

R30 = One 30' PVC setpoint cable with DSUB15-F connector to spade lugs and one 30' PVC flow measurement cable with DSUB15-F connector to flush cut end

T06 = One T-setpoint signal cable; one T-flow measurement cable

#### Number of Cables

0 = No cables

1 = One IFC cable

2 = Two IFC cables

3 = Three IFC cables

4 = Four IFC cables

5 = Five IFC cables

6 = Six IFC cables

#### IFC Cable Option

D00A = DSUB15-M connector only, no cable

D12A = Assembled 12' PVC cable with polypropylene and DSUB15-M connectors

D18A = Assembled 18' PVC cable with polypropylene and DSUB15-M connectors

D30A = Assembled 30' PVC cable with polypropylene and DSUB15-M connectors

## For More Information

To learn how NT™ signal converter boxes can simplify your CMP tool pump retrofit, or for more information on the complete line of fluoropolymer fluid handling solutions, contact your local Entegris distributor or Entegris, Inc.

To review our complete line of sensing and control product solutions, see Entegris' Fluid Handling Systems catalog, visit Entegris' Web site at [www.entegrisfluidhandling.com](http://www.entegrisfluidhandling.com) or contact Entegris Customer Service for your free *Fluid Handling Systems* catalog on CD-ROM.

## Terms and Conditions of Sale

All purchases are subject to Entegris' "Terms and Conditions of Sale."

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### ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA

Customer Service Tel. 952-556-4196 In North America 800-394-4084 / Customer Service Fax 952-556-8022

[www.entegris.com](http://www.entegris.com) / [www.entegrisfluidhandling.com](http://www.entegrisfluidhandling.com)

*The materials integrity management company*

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