

# FAQ: *CINTAC*<sup>™</sup> Advanced Automation System

---



**Q: What is the make or break dead band of the soft limit switches?**

**A:** Our default program setting is maximum 3 degrees.

**Q: Will the internal microprocessor remember limit switch settings when power is removed from the unit?**

**A:** Yes. Soft limit switch settings are written to non-volatile memory and unaffected by the presence or absence of power to the unit.

**Q: I am concerned about unauthorized tampering with the open and closed setting buttons. What "security" could be applied to avoid local tampering?**

**A:** It requires significant effort to access *CINTAC* switches. In order to do so, the cover must be removed via four fasteners, just like commercially available positioners. However, if this is not sufficient, many options are possible. One option is to paint the clear cover. Another would be to leave the clear enclosure and put a locking cover or mask over the push buttons. This would allow visibility of the on-board LED indicators.

**Q: What are the rated Cv and manufacturer of the internal pilot?**

**A:** The Cv value is 0.75. MAC manufactures the pilot.

**Q: Can an external NAMUR mount solenoid be used instead of the internal solenoid?**

**A:** There is no provision for interface of an external solenoid..

**Q: Is *CINTAC* available without a manual override?**

**A:** The standard *CINTAC* unit will be supplied without an external manual override. The external override is optionally available for all units. This is not to be confused with the internal override that is supplied with each *CINTAC* and is used to set the limit switches.

**Q: Is the pilot coil field replaceable?**

**A:** Yes. The entire coil/spool assembly is serviceable and replaceable.

**Q: If electronic parts are replaced in the field, what happens to approvals?**

**A:** The ability to retain the approval depends upon the approval agency, the party performing the work, and which procedures are followed.

**Q: Can the on-board rectifier be eliminated or bypassed??**

**A:** Yes. If it is the user's preference, *CINTAC* is available as a single voltage (non-rectified)<sup>™</sup> unit. The *CINTAC* standard is a universal voltage (rectified) input accepting up to 24vDC and 120vAC.

**Q: What corrosion protection is included for internal airflow passages/ports?**

**A:** The entire *CINTAC* chassis, including the internal airflow passages, are anodized and sealed.

**Q: Will diagnostics reveal clogged internal passages?**

**A:** Yes. The second release of *CINTAC* will include on board diagnostics. One of the key measured variables will reveal a malfunctioning spool due to clogged air passages.

**Q: Is there an air purge?**

**A:** Yes. The spring return comes standard with a re-breather feature that exchanges clean filtered air within the entire *CINTAC* unit.

**Q: Does the unit consume air in steady state?**

**A:** No. *CINTAC* is a zero consumption device in steady state.

**Q: Is *CINTAC* compatible with portable handheld devices?**

**A:** No, not at this time. However, future iterations of the product, containing more sophisticated diagnostics and communication, will be considered for handheld communication.

**Q: What is the leakage current rating of the device?**

**A:** Maximum leakage current is 0.5mA.

**Q: What is the Degree of Visibility of the beacon?**

**A:** Approximately 160 degrees.

**Q: What has been done to environmentally protect the *CINTAC* circuitry?**

**A:** All electronics are sealed and potted.

**Q: What tests has Metso done and can you share the data?**

**A:** The product is undergoing a rigorous qualification test program, including, but not limited to, salt spray corrosion, high and low temperature, shock, vibration and endurance tests. Test data can be made available.

**Q: Can you provide detailed specifications for the position sensor?**

**A:** It is a Honeywell magnetic resistive (mag res) sensor product, which senses changes in direction of a magnetic field:

**Q: Why was the magnetic resistive sensor chosen?**

**A:** The sensor is contact-less, meaning that there are no wear points to shorten service life. Also, the sensor is tolerant of lateral and axial shaft movement without affecting rotational measurement accuracy.

**Q: How are electrical connections made?**

**A:** The standard connection is via a   " conduit connection to a terminal strip. Variations of *CINTAC* using different connectors and conduit connection are available as options.

**Q: Is the *CINTAC* available with bus communication capability?**

**A:** Yes. The *CINTAC* can be power with straight voltage or bus powered. The unit is available with ASI, DeviceNet, ModBus or Foundation Fieldbus capability.

**Q: What are the *CINTAC* chassis and cover materials of construction?**

**A:** The chassis and enclosure are constructed of anodized aluminum and urethane coated. The cover is high strength Lexan polycarbonate.

**Q: What is the maximum power consumption of the solenoid pilot?**

**A:** Power consumption is 0.6 watts maximum.

**Q: What is the maximum current consumption of the solenoid pilot?**

**A:** Maximum AC current consumption is 18 mA.

**Q: What is the maximum air pressure rating of the *CINTAC*?**

**A:** The *CINTAC*™ will accept air pressure supplies up to 120 psi.

**Q: What size is the air filtration requirement to the unit?**

**A:** The *CINTAC* is tolerant of dirty air. The ISA recommended filtration is 40 micron..

**Q: What is the material of construction of the fasteners used in the *CINTAC*?**

**A:** The material of construction is stainless steel.

**Q: Is there a mechanical safety lock out available?**

**A:** A mechanical safety lock out, which complies with the intent of OSHA requirements for locking actuators in position prior to performing maintenance, is available for all *CINTAC* units except the model CT100 pneumatic module.

**Q: Is there a 100% adjustable mechanical travel stop available?**

**A:** Yes. It is available for all models.

**CINTAC™**

Advanced Automation System

---

**Metso Automation**

**Europe**, Levytie 6, P.O. Box 310, 00811 Helsinki, Finland.  
Tel. int. +358 20 483 150, Fax int. +358 20 483 151

**North America**, 44 Bowditch Drive, P.O. Box 8044, Shrewsbury, MA 01545-8044 USA.  
Tel. int. +1 508 852 0200, Fax int. +1 508 852 8172

**Latin America**, Av. Central, 181 Chácaras Reunidas, 12238-430, São José dos Campos, SP BRAZIL.  
Tel. int. +55 123 9353 500, Fax int. +55 123 9353 535

**Middle East**, Jebel Ali Freezone, P.O. Box 17175, Dubai, United Arab Emirates.  
Tel. int. +971 4 8836 974, Fax int. +971 4 8836 836

**Asia Pacific**, 501 Orchard Road, #05-09 Wheelock Place, 238880 Singapore.  
Tel. int. +65 735 5200, Fax int. +65 735 2955

[www.metsoautomation.com](http://www.metsoautomation.com)

