



## T 18 mini digital ULTRA-TURRAX®

/// Data Sheet

T 18 mini digital is an economical high-performance dispersing instrument with a wide speed range of 3000 - 25,000 rpm for working volumes of up to 1.5 liters (H20). It enables the user to work at high circumferential speeds even with small rotor diameters. The compact design of this disperser allows for operation in the tightest of spaces. A large TFT display ensures easy readability from a greater distance, even from outside a fume hood. This setup is best suited for simple applications homogenizing samples with low viscosity.

A broad choice of dispersing elements guarantee a wide range of applications for efficient emulsification, homogenization, dispersing and suspending as well as reduction of particle sizes to the micrometer range.







- Digital speed display and adjustment
- Brushless motor for improved motor lifetime, quieter operation and more hygienic applications
- Timer function for unattended operation
- Dispersing elements: stainless steel option with a high chemical resistance or plastic options that come in two sizes
- Quick insert for easy change of dispersing elements for convenient cleaning and maintenance
- USB interface for remote control and parameter documentation with the IKA labworldsoft® software

All S 18 dispersing tools and accessories are compatible with this the T 18 mini digital. The dispersing tool is not included in the scope of delivery.





## **Technical Data**

Motor rating output [W]         160           Volume range (H2O) [I]         0.001 - 1.5           Viscosity max. [MPas]         2000           Speed range [rpm]         3000 - 25000           Speed deviation [%]         3           Speed display         LED           Speed display         LED           Speed display         To           Noise without element [dB(A)]         75           Motor principle         Brushless DC           Extension arm diameter [mm]         13           Extension arm length [mm]         160           Process type         batch           Timer         yes           Timer display         LED           Permissible ON time [%]         100           Dimensions (W x H x D) [mm]         66 x 186 x 100           Weight [Rg]         1.8           Permissible ambient temperature [°C]         5 - 40           Permissible relative humidity [%]         100 - 240           Soldo         yes           Voltage [V]         210           Power input M2         210           Power input M3         250           Power input M4         250           Power input standby [W]         210	Motor rating input [W]	210
Viscosity max. [mPas]         2000           Speed range [rpm]         3000 - 25000           Speed deviation [%]         3           Speed diplay         LED           Speed adjustment         stepless           Noise without element [dB(A)]         75           Motor principle         Brushless DC           Extension arm diameter [mm]         13           Extension arm dength [mm]         160           Process type         batch           Timer         yes           Timer display         LED           Permissible ON time [%]         100           Dimensions (W x H x D) [mm]         66 x 186 x 100           Weight [kg]         1.8           Permissible ambient temperature [°C]         5 - 40           Permissible relative humidity [%]         80           Protection class according to DIN EN 60529         IP 30           USB interface         yes           Voltage [V]         100 - 240           Frequency [Hz]         50/60           Power input (M]         210           Power input max. [W]         250           Power input max standby [M]         3           DC Voltage [V=]         48	Motor rating output [W]	160
Speed range [rpm]         3000 - 25000           Speed deviation [%]         3           Speed display         LED           Speed display         stepless           Noise without element [dB(A)]         75           Motor principle         Brushless DC           Extension arm diameter [mm]         13           Extension arm length [mm]         160           Process type         batch           Timer         yes           Timer display         LED           Permissible ON time [%]         100           Dimensions (W x H x D) [mm]         66 x 186 x 100           Weight [kg]         1.8           Permissible ambient temperature [°C]         5 - 40           Permissible relative humidity [%]         80           Process [VP]         100 - 240           Steplered[V]         50/60           Power input [M]         210           Power input [M]         210           Power input standby [M]         3           DC Voltage [V=]         48	Volume range (H2O) [I]	0.001 - 1.5
Speed deviation [%]3Speed displayLEDSpeed adjustmentsteplessNoise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm diameter [mm]160Process typebatchTimeryesUmmer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]5 - 40Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [M]210Power input [M]250Power input standby [W]3DC Voltage [V=]48	Viscosity max. [mPas]	2000
Speed displayLEDSpeed adjustmentsteplessNoise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDDimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 2240Frequency [Hz]50/60Power input [M]210Power input [M]3DC Voltage [V=]48	Speed range [rpm]	3000 - 25000
Speed adjustmentsteplessNoise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]1.8Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input tmax. [W]210Power input tstandby [VI]3DC Voltage [V=]48	Speed deviation [%]	3
Noise without element [dB(A)]         75           Motor principle         Brushless DC           Extension arm length [mm]         13           Extension arm length [mm]         160           Process type         batch           Timer         yes           Timer display         LED           Permissible ON time [%]         100           Dimensions (W x H x D) [mm]         66 x 186 x 100           Weight [kg]         1.8           Permissible ambient temperature [°C]         5 - 40           Protection class according to DIN EN 60529         IP 30           USB interface         yes           Voltage [V]         100 - 240           Frequency [Hz]         50/60           Power input [W]         210           Power input tanalby [W]         3           DC Voltage [V=]         48	Speed display	LED
Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [M]210Power input [M]250Power input tandby [W]3DC Voltage [V=]48	Speed adjustment	stepless
Extension arm diameter [mm]         13           Extension arm length [mm]         160           Process type         batch           Timer         yes           Timer display         LED           Permissible ON time [%]         100           Dimensions (W x H x D) [mm]         66 x 186 x 100           Weight [kg]         1.8           Permissible ambient temperature [°C]         5 - 40           Permissible relative humidity [%]         80           Protection class according to DIN EN 60529         IP 30           USB interface         yes           Voltage [V]         100 - 240           Frequency [Hz]         50/60           Power input [W]         210           Power input max. [W]         250           Power input standby [W]         3           DC Voltage [V=]         48	Noise without element [dB(A)]	75
Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]5 - 40Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Motor principle	Brushless DC
Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Extension arm diameter [mm]	13
TimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Extension arm length [mm]	160
Timer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Process type	batch
Permissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Timer	yes
Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Timer display	LED
Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible ON time [%]	100
Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48		66 x 186 x 100
Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Weight [kg]	1.8
Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible ambient temperature [°C]	5 - 40
USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible relative humidity [%]	80
Voltage [V]         100 - 240           Frequency [Hz]         50/60           Power input [W]         210           Power input max. [W]         250           Power input standby [W]         3           DC Voltage [V=]         48	Protection class according to DIN EN 60529	IP 30
Frequency [Hz]         50/60           Power input [W]         210           Power input max. [W]         250           Power input standby [W]         3           DC Voltage [V=]         48	USB interface	yes
Power input [W]         210           Power input max. [W]         250           Power input standby [W]         3           DC Voltage [V=]         48	Voltage [V]	100 - 240
Power input max. [W]         250           Power input standby [W]         3           DC Voltage [V=]         48	Frequency [Hz]	50/60
Power input standby [W]     3       DC Voltage [V=]     48	Power input [W]	210
DC Voltage [V=] 48	Power input max. [W]	250
	Power input standby [W]	3
Current consumption [mA] 4500	DC Voltage [V=]	48
	Current consumption [mA]	4500

